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THE ESTIMATED COST FOR THIS REQUEST IS 542.36 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:142123 CAPLUS

DOCUMENT NUMBER: 154:170452

TITLE: Organic electroluminescent element

INVENTOR(S): Ise, Toshihiro; Kitamura, Tetsu; Watanabe, Toru;
Takeda, Akira; Tonosaki, Keiju

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 128pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011013783	A1	20110203	WO 2010-JP62859	20100729
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			JP 2009-180223	A 20090731
			JP 2009-201155	A 20090831
			JP 2009-221663	A 20090925

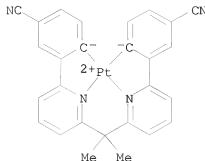
AB Disclosed is an organic electroluminescent element having excellent light emission characteristics and excellent durability, wherein chromaticity change is suppressed when the organic electroluminescent element is driven at high temps. The organic electroluminescent element comprises, on a substrate, a pair of electrodes and a light-emitting layer arranged between the electrodes, and was characterized in that the light-emitting layer contains a compound (Cz)p-L-(A)q [Cz = (un)substituted arylcarbazolyl or carbazolylyl; L = single bond, (un)substituted arylene, cycloalkylene or aromatic heterocycle; A = (un)substituted N-containing six-membered aromatic heterocycle; p, q = integer of 1-6] and a specific metal complex.

IT 881887-26-9 881887-28-1

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent element)

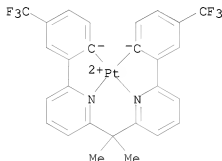
RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-28-1 CAPLUS

CN Platinum, [[2,2'-(1-methylethylidene)bis[6-[3-(trifluoromethyl)phenyl]pyridinato]](2-)]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:142036 CAPLUS

DOCUMENT NUMBER: 154:220813

TITLE: Organic electroluminescent element and method for manufacturing same

INVENTOR(S): Masui, Kensuke; Sugiyama, Takeo; Kawato, Koji

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCI Int. Appl., 53pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011013628	A1	20110203	WO 2010-JP62541	20100726
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,				

HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE,
 SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ,
 TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 4598137 B1 20101215 JP 2009-180204 20090731
 JP 2011035172 A 20110217

PRIORITY APPLN. INFO.: JP 2009-180204 A 20090731

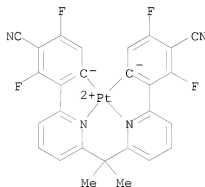
AB Disclosed is an organic electroluminescent element which was characterized by comprising a light-emitting layer that has a Raman peak within the range of 800 - 1,283 cm⁻¹. The organic electroluminescent element is also characterized in that the wavenumber difference between the maximum Raman peak of the light-emitting layer as determined as a layer and the Raman peak of the material that forms the light-emitting layer as determined as a crystal is 2 cm⁻¹ at the maximum

IT 1256953-03-3

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent element and method for manufacturing same)

RN 1256953-03-3 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-3,5-difluoro-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 91 CAPLUS COPYRIGHT 2011 ACS ON STN

ACCESSION NUMBER: 2011:142025 CAPLUS

DOCUMENT NUMBER: 154:220812

TITLE: Vapor deposition material for organic device and method for manufacturing organic device

INVENTOR(S): Hayashi, Masayuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 48pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

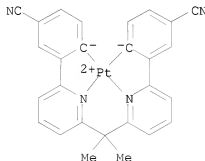
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011013626	A1	20110203	WO 2010-JP62538	20100726
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE,			

KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2009-179957 A 20090731
 JP 2009-219311 A 20090924

AB Disclosed is a vapor deposition material which is used for the production of an organic device. The vapor deposition material for an organic device has an average particle diameter expressed as D50% of 10-200 μ m and a uniformity degree expressed as D60% diameter/D10% diameter of 1.0-4.0.
 IT 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (vapor deposition material for organic device)
 RN 881887-26-9 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ Cl)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 91 CAPLUS COPYRIGHT 2011 ACS ON STN
 ACCESSION NUMBER: 2011:139719 CAPLUS
 DOCUMENT NUMBER: 154:170449
 TITLE: Organic electroluminescent element
 INVENTOR(S): Kitamura, Tetsu; Watanabe, Toru; Hayashi, Masayuki; Ise, Toshihiro
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: PCT Int. Appl., 121pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011013830	A1	20110203	WO 2010-JP62961	20100730
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA,				

MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

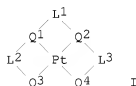
JP 2009-180222

A 20090731

JP 2009-201157

A 20090831

GI



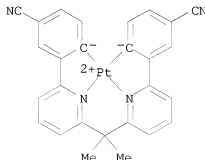
AB Disclosed is an organic electroluminescent element which is able to be driven at low voltage and exhibits high efficiency and excellent durability, while having small chromaticity change when driven at high temps. The organic electroluminescent element comprises, on a substrate, a pair of electrodes and at least one organic layer arranged between the electrodes and including a light-emitting layer, and was characterized in that one organic layer contains a compound (Cz)p-L-(A)q [Cz = (un)substituted arylcarbazolyl or carbazolylaryl; L = single bond, (un)substituted arylene, cycloalkylene or aromatic heterocycle; A = (un)substituted N-containing six-membered aromatic heterocycle; p, q = integer of 1 - 6.] and the light-emitting layer contains a phosphorescent material I [Q1-4 = ligand coordinated to Pt; L1-3 = single bond or divalent linking group].

IT 881887-26-9 1227925-61-2 1234267-56-1

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent element)

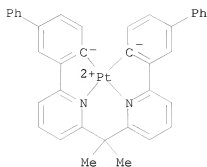
RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



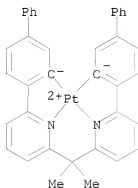
RN 1227925-61-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)[1,1'-biphenyl]-3,4-diyl-κC4]]-, (SP-4-2)- (CA INDEX NAME)



RN 1234267-56-1 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)[1,1'-biphenyl]-4,3-diyl-κC3]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:100519 CAPLUS

DOCUMENT NUMBER: 154:196969

TITLE: Organic electroluminescence components

INVENTOR(S): Masui, Kensuke; Toyama, Wataru

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Tokkyo Koho, 49pp.

CODEN: JTXFF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4620802	B1	20110126	JP 2010-181403	20100813
PRIORITY APPLN. INFO.:			JP 2010-9813	A 20100120

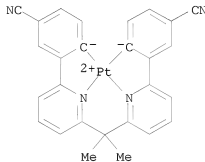
AB The title organic electroluminescence component comprises a 1st/2nd/3rd organic laminate bound between an anode and a cathode, wherein (1) the 1st organic layer contains 10-90 weight% 1st host material and 10-90 weight% 1st hole transport phosphorescent material and (2) the 2nd organic layer contains 65-96.9 weight% 2nd host material, 3-30 weight% 2nd hole transport phosphorescent material, and 0.1-5 weight% electron trap material. The 2nd host material, 2nd hole transport phosphorescent material, and the

electron trap material have relationships indicated below;
 $|HOMOt2| > |HOMOh2|$, $|HOMOt2| > |HOMOp2|$, $|LUMOh2| + 0.25\text{eV} < |LUMOt2|$, and
 $|LUMOp2| + 0.25\text{eV} < |LUMOt2|$, wherein HOMOt2 denotes the HOMO energy level of
 electron trap material in the 2nd organic layer, HOMOh2 denotes the HOMO
 energy level of the 2nd host material, HOMOp2 denotes the HOMO energy
 level in the 2nd hole transport phosphorescent materials, LUMOh2 denotes
 the LUMO energy level in the 2nd host material, LUMOt2 denotes the LUMO
 energy level in the electron trap material in the 2nd organic layer, and
 LUMOp2 denotes the LUMO energy level in the 2nd hole transport
 phosphorescent material. The total average thickness of the 1st and 2nd
 organic layers is ≥ 40 nm. The 3rd organic layer contains a hole block
 material having a triple term excitation level which is higher than that in the
 2nd hole transport phosphorescent material by 0.1 eV. The arrangement
 gives organic electroluminescent components simultaneous fulfillment of
 excellent durability, luminescent efficiency, and current-caused
 chromaticity deterioration prevention at decreased radiation position
 deviation.

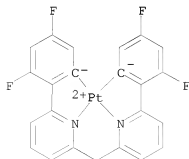
IT 881887-26-9 1229620-10-3
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (electron trap layer; organic electroluminescence components)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-
 phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



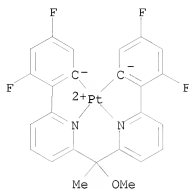
RN 1229620-10-3 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



DOCUMENT NUMBER: 154:110158
 TITLE: Phosphorescent platinum complexes, their monomers and copolymers, and uses in organic electronic devices
 INVENTOR(S): Feng, Ke; Zhang, Yadong; Barlow, Stephen; Kim, Dongwook; Marder, Seth R.; Bredas, Jean-Luc; Weck, Marcus; Kippelen, Bernard; Kim, Sung-Jin
 PATENT ASSIGNEE(S): Georgia Tech Research Corporation, USA; Solvay SA
 SOURCE: PCT Int. Appl., 78pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

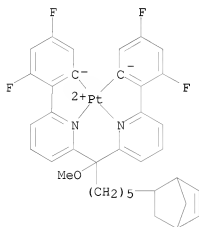
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2011000873	A1	20110106	WO 2010-EP59289	20100630
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRIORITY APPLN. INFO.:			US 2009-222275P	P 20090701
AB	The inventions disclosed and described herein relate to phosphorescent platinum complexes that can be optionally substituted and/or optionally bonded to polymerizable groups, including styrene, acrylate, or norbornene groups, the phosphorescent polynorbornene copolymers made therefrom, and electronic devices comprising the platinum complexes and their copolymers, including organic light emitting diodes. Methods of making the Platinum complexes and the related copolymers and/or devices are also described.			
IT	1187677-42-4P	1187677-47-9P	1187677-48-0P	
	1187677-51-5P			
	RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (phosphorescent platinum complexes, their monomers and copolymers, and uses in organic electronic devices)			
RN	1187677-42-4 CAPLUS			
CN	Platinum, [(1-methoxyethylidene)bis[(2,6-pyridinediyl-kN)(4,6-difluoro-1,2-phenylene-kC)]]-, (SP-4-2)- (CA INDEX NAME)			

10/578,039



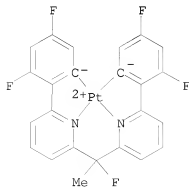
RN 1187677-47-9 CAPLUS

CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-methoxyhexylidene)bis[(2,6-pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 1187677-48-0 CAPLUS

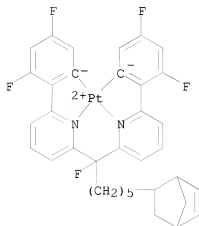
CN Platinum, [(1-fluoroethylidene)bis[(2,6-pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



10/578,039

RN 1187677-51-5 CAPLUS

CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-fluorohexylidene)bis[(2,6-pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-
(CA INDEX NAME)



IT 1187677-52-6P 1187677-53-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(phosphorescent platinum complexes, their monomers and copolymers, and uses in organic electronic devices)

RN 1187677-52-6 CAPLUS

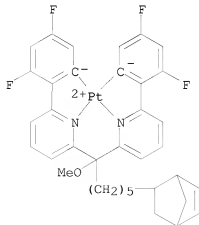
CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-methoxyhexylidene)bis[(2,6-pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-, polymer with bicyclo[2.2.1]hept-5-en-2-ylmethyl 3,5-di-9H-carbazol-9-ylbenzoate (CA INDEX NAME)

CM 1

CRN 1187677-47-9

CMF C36 H32 F4 N2 O Pt

CCI CCS

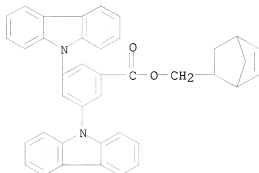


10/578,039

CM 2

CRN 1167996-20-4

CMF C39 H30 N2 O2



RN 1187677-53-7 CAPLUS

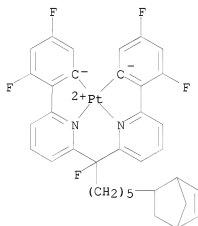
CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-fluorohexylidene)bis[(2,6-pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-, polymer with bicyclo[2.2.1]hept-5-en-2-ylmethyl 3,5-di-9H-carbazol-9-ylbenzoate (CA INDEX NAME)

CM 1

CRN 1187677-51-5

CMF C35 H29 F5 N2 Pt

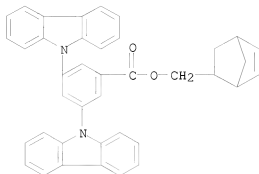
CCI CCS



CM 2

CRN 1167996-20-4

CMF C39 H30 N2 O2



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 91 CAPLUS COPYRIGHT 2011 ACS ON STN

ACCESSION NUMBER: 2010:1631988 CAPLUS

DOCUMENT NUMBER: 154:121124

TITLE: Organic electroluminescent devices using lenses to control the optical path of emitted light achieving high light-extraction efficiency and reduced image bleeding and design method of OLED

INVENTOR(S): Sonoda, Shinichiro; Takabashi, Toshiro; Tobise, Manabu

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 31pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100327304	A1	201010230	US 2010-826106	20100629
JP 2011029172	A	20110210	JP 2010-147753	20100629
PRIORITY APPLN. INFO.:			JP 2009-156351	A 20090630

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Organic electroluminescent devices with high light-extraction efficiency and reduced image bleeding are described which comprise an organic electroluminescent display part which includes an anode, a cathode and at least a light-emitting layer disposed between them, and a lens which controls an optical path of light emitted from the light-emitting layer, where the organic electroluminescent device has a ratio of A to B (A/B) of greater than 1, where A denotes a light-extraction efficiency in terms of front brightness when the lens is placed on a surface from which the light is extracted, and B denotes a light-extraction efficiency in terms of front brightness when the lens is not placed on the surface from which the light is extracted, and where the organic electroluminescent device has a ratio of ϕ to a (ϕ/a) of 1.0 or greater, where a denotes the maximum length of a side of the light-emitting layer and ϕ denotes an effective diameter of the lens.

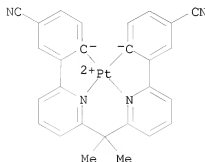
IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(in mixed light-emitting layer; organic electroluminescent devices using lenses to control optical path of emitted light achieving high light-extraction efficiency and reduced image bleeding and design method of OLED)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 8 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1556265 CAPLUS

DOCUMENT NUMBER: 154:52794

TITLE: Production method of organic electroluminescent device

INVENTOR(S): Masui, Kensuke; Sugiyama, Takao; Kawato, Koji

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Tokkyo Koho, 32pp.

CODEN: JTXXFF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4598137	B1	20101215	JP 2009-180204	20090731
JP 2011035172	A	20110217		
WO 2011013628	A1	20110203	WO 2010-JP62541	20100726
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: JP 2009-180204 A 20090731

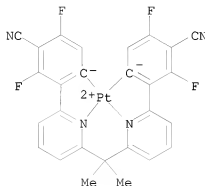
AB The invention refers to a production method of an organic electroluminescent device using vapor deposition, wherein the host material of the luminescent layer has a Raman peak at 1000.4 - 1283 cm⁻¹, and the maximum and min. temperature of the guest material and substrate is within 2° spectra that the deposition peak difference between the host material in the luminescent layer and the host material in crystal form is ≤ 2 cm⁻¹.

IT 1256953-03-3

RL: TEM (Technical or engineered material use); USES (Uses)
(production method of organic electroluminescent device)

RN 1256953-03-3 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-3,5-difluoro-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 9 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1531317 CAPLUS

DOCUMENT NUMBER: 154:38504

TITLE: Organic electroluminescent devices provided with

polycarbazole compound charge blocking layer

INVENTOR(S): Kinoshita, Masaru; Masui, Kensuke

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 75pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

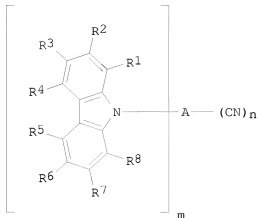
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010140482	A1	20101209	WO 2010-JP58537	20100520
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

JP 2010278390 A 20101209 JP 2009-132123 20090601

PRIORITY APPLN. INFO.: JP 2009-132123 A 20090601

OTHER SOURCE(S): MARPAT 154:38504

GI



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AB The title organic electroluminescent device comprises ≥ 1 organic layer(s) containing a luminescent layer between the anode and the cathode, wherein (1) the luminescent layer contains a host material and a specific iridium phosphorescent material and (2) an organic charge block layer adjacent to the luminescent layer on its cathode side contains polycarbazole compds. [I: R1-8 = H, substituent; A = (substd.) aromatic ring; $m \geq 2$ int., $n \geq 1$ int.]. the polycarbazole charge block layers I effectively increases luminous efficiency in the electroluminescent devices.

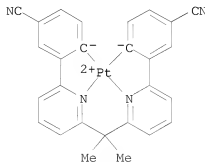
IT 881887-26-9

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(host layer; organic electroluminescent devices provided with)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ Cl)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1496714 CAPLUS

DOCUMENT NUMBER: 154:21511

TITLE: Organic electroluminescence element having light-emitting layer made of platinum phenylpyridine

INVENTOR(S): derivative
 Masui, Kensuke
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 25pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100301315	A1	20101202	US 2010-780581	20100514
JP 2011014873	A	20110120	JP 2010-98624	20100422
PRIORITY APPLN. INFO.:			JP 2009-132033	A 20090601
			JP 2010-98624	A 20100422

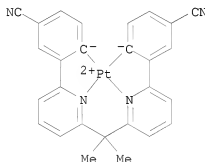
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An organic electroluminescence element comprising an anode, a cathode, and at least one organic layer disposed between the anode and the cathode, the organic layer containing a light-emitting layer, where the light-emitting layer contains a host material and a phosphorescent light-emitting material, and the host material contains at least one platinum complex compound containing a tetradentate ligand, expressed by a given general formula, is disclosed.

IT 881887-26-9 1227925-61-2 1256953-03-3
 1256953-04-4
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (organic electroluminescence element having anode, cathode, and light-emitting compound)

RN 881887-26-9 CAPLUS

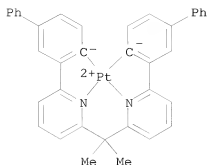
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



RN 1227925-61-2 CAPLUS

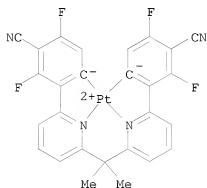
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)[1,1'-biphenyl]-3,4-diyl-κC4]]-, (SP-4-2)- (CA INDEX NAME)

10/578,039



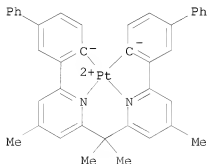
RN 1256953-03-3 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-3,5-difluoro-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



RN 1256953-04-4 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(4-methyl-6,2-pyridinediyl-κN)[1,1'-biphenyl]-3,4-diyl-κC4]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 11 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:1226731 CAPLUS

DOCUMENT NUMBER: 153:492710

TITLE: Organic electroluminescent device

INVENTOR(S): Kinoshita, Ikuo

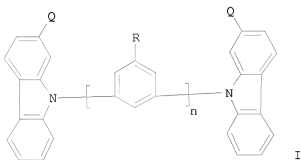
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 48pp.

DOCUMENT TYPE: CODEN: USXXCO
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100244676	A1	20100930	US 2010-751066	20100331
JP 2010245063	A	20101028	JP 2009-88523	20090331
PRIORITY APPLN. INFO.:			JP 2009-88523	A 20090331

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 153:492710
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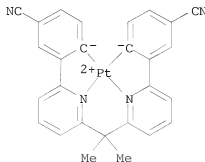
AB An organic electroluminescent is provided and includes: a pair of electrodes; and at least one organic layer, between the pair of electrodes, including a light emitting layer. The device comprising, in the at least one organic layer, a compound I [Q = t-Bu or trimethylsilyl group; R = H, alkyl, cyano, aryl, or heteroaryl; n = 1 or 2].

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent device)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



TITLE: Organic electroluminescence devices provided with organometallic heterocyclic complex compounds
 INVENTOR(S): Takizawa, Hiroo; Takada, Saki; Fukuzaki, Eiichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Tokkyo Koho, 144pp.
 CODEN: JTXXFF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4551480	B1	20100929	JP 2009-201150	20090831
PRIORITY APPLN. INFO.:			JP 2009-201150	20090831
OTHER SOURCE(S):	MARPAT	153:494508		

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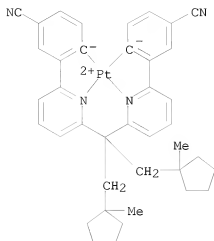
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The electroluminescent layer contained in organic layers bound between electrodes in the title organic electroluminescence device has a group I [R1 = alkyl; R2, R3 = H, alkyl; ns = 1-3 int.; Z = C5-8 saturated ring] substd. in metal complex compds. II [M21 = Ir; A21-23 = N, C; Z21 = (substd.) quinolyl, (substd.) isoquinolyl, (substd.) benzooxazolyl, (substd.) pyridyl, (substd.) imidazolyl, (substd.) pyrazolyl; Z22 = (substd.) Ph, (substd.) pyrazolyl, (substd.) pyridyl, (substd.) benzooxazolyl, (substd.) thiophenyl; L22,23 = C, N, O; L22,23-E21 = divalent ligand including phenylpyridyl, pyridylpyridine, picolinic acid, acetylacetone; k = 1-3 int., l = 0-2 int., k+l=3; S21,22 = group I; n,m = 0-4 int. where (n+m)=1-4 int.], III [A141-146 = N, C; Z141,142 = isoquinolyl, benzooxazolyl, pyridyl, imidazolyl, pyrazolyl; Z143,144 = (substd.) isoquinolyl, (substd.) benzooxazolyl, (substd.) Ph, (substd.) pyridyl, (substd.) imidazolyl, (substd.) pyrazolyl; E141 = -C(R1)(R2)- divalent group; R1,2 = alkyl; S141,144 = group I; n,m,k,l = 0-2 int., (n+m+k+l)=1-2 int.], or IV [R1a-1l = H, alkyl, cycloalkyl, aryl, 2,6-dimethylphenyl, 2,4,6-trimethylphenyl, cyano, fluoro; at least 1 of R1a-1l has group I; X-Y = monoanionic divalent ligand chosen from diketones and picolic acid derivs.; n = 1-3 int.]. Group I provides the organic electroluminescent devices with phosphorescent materials in high electroluminescent conversion efficiency, high durability, and low chromaticity deviation in characteristic deterioration.

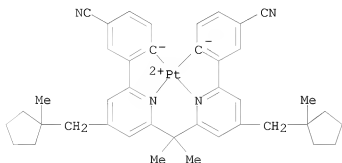
IT 1246565-49-OP 1246565-50-3P
 RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (organic electroluminescent layer; organic electroluminescence devices provided with organometallic heterocyclic complex compds.)

RN 1246565-49-0 CAPLUS

CN Platinum, [[2-(1-methylcyclopentyl)-1-[(1-methylcyclopentyl)methyl]ethylidene]bis[6,2-pyridinediyl(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



RN 1246565-50-3 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[[4-[(1-methylcyclopentyl)methyl]-6,2-pyridinediyl](4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 13 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:1065584 CAPLUS
 DOCUMENT NUMBER: 153:370485
 TITLE: Electroluminescent phosphorescent organic transition metal complexes, light-emitting layers containing them, organic electroluminescent devices using them, and displays and lighting systems using the devices
 INVENTOR(S): Fukuzaki, Eiji
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 117pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010185068	A	20100826	JP 2009-223455	20090928
JP 4564590	B1	20101020	JP 2010-76447	20100329

PRIORITY APPLN. INFO.:

JP 2009-201144

A 20090831

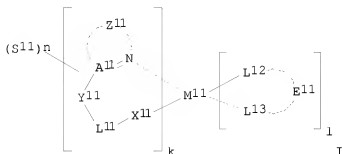
JP 2009-223455

A 20090928

OTHER SOURCE(S):

MARPAT 153:370485

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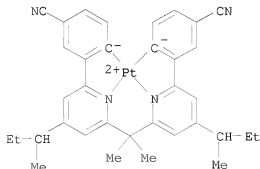
AB The title complexes are represented by I [M11 = Group VIII metal, Group IB metal, preferably Ir, Pt; A11 = N, C; X11 = O, S, (substituted) N, single bond; Y 11 = linkage, single bond; Z11 = N-containing atom. group; L12, L13 = C N, O, P; E11 = atomic group forming bidentate ligand with L12 and L13; S11 = CH₂Me₃, other branched alkyl groups (structures given), 1-adamantyl, 2-adamantyl = group substituting L11 and/or Z11; k = 1-3; l = 0-2; k + l = 2, 3; n = 1-4]. The title organic electroluminescent devices may also contain carbazoles or indoles in the light-emitting layers. The title devices show high luminescence efficiency, good durability, and suppressed color shift after brightness decrease.

IT 1241050-83-8P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manufacture of electroluminescent phosphorescent organic transition metal complexes for emitter layers of organic electroluminescent devices for displays and lighting systems)

RN 1241050-83-8 CAPLUS

CN Platinum, [(1-methylethylidene)bis[[4-(1-methylpropyl)-6,2-pyridinediyl-κN][5-cyano-1,2-phenylene-κC2]]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 14 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:993023 CAPLUS

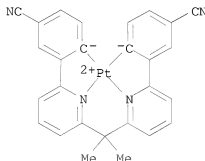
DOCUMENT NUMBER: 153:27832

TITLE: Coating composition for organic electroluminescent

INVENTOR(S): device and production method of vapor deposition film
 Sato, Yu
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Tokkyo Koho, 38pp.
 CODEN: JTXXFF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4523666	B1	20100811	JP 2009-180166	20090731
JP 2011034812	A	20110217		
KR 2011013263	A	20110209	KR 2010-72371	20100727
			JP 2009-180166	A 20090731

PRIORITY APPLN. INFO.:
 AB The invention refers to a coating composition for an organic electroluminescent device comprising an organic compound having mol. weight < 2000, and a medium which dissolves and disperses the organic compound and does not vaporize at the evaporation temperature of the organic compound, wherein the medium is an organic salt or a polymethacrylate with average mol. weight > 10000, and remains a liquid under < 1 x 10⁻² Pa pressure at the evaporation temperature of the organic compound, and has a decomposition temperature > 30° higher than the decomposition temperature of the organic compound
 IT 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coating composition for organic electroluminescent device and production method of vapor deposition film)
 RN 881887-26-9 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 15 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:881133 CAPLUS
 DOCUMENT NUMBER: 153:188521
 TITLE: Organic electroluminescent device
 INVENTOR(S): Tobiyo, Manabu
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 35pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010157606	A	20100715	JP 2008-334928	20081226

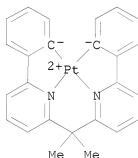
PRIORITY APPLN. INFO.: JP 2008-334928 20081226

AB The device is characterized by a light-emitting layer containing electron-transporting phosphors (E) and hole-transporting host materials between a pair of electrodes, wherein the concentration of E in the layer is gradually decreased toward the anode side from the cathode side, and ≥ 1 phosphor having triplet energy level lower than that of E is contained in the E concentration-decreased region in 1/100-1/2-fold thickness of total light-emitting layer thickness. Preferably, E is Pt-centered metal complex. The organic EL device with high-brightness white light emission is provided.

IT 808111-97-9 864541-08-2 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (phosphor with low triplet energy level; organic electroluminescent device having phosphor having controlled triplet energy level in low distribution region of electron-transporting phosphor)

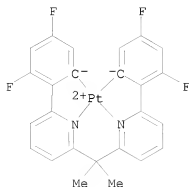
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



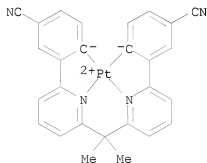
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 16 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:851994 CAPLUS

DOCUMENT NUMBER: 153:188483

TITLE: Organic electroluminescent devices employing platinum complexes

INVENTOR(S): Takada, Saki; Yagi, Kazunari; Murakami, Takeshi; Fukuzaki, Eiji

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 85pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

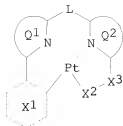
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100171111	A1	20100708	US 2010-683178	20100106
PRIORITY APPLN. INFO.:				
			JP 2009-2056	A 20090107
			JP 2009-186893	A 20090811
			JP 2009-201156	A 20090831

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 153:188483

GI



AB Organic electroluminescent devices comprising a pair of electrodes and a light emitting layer between the electrodes are described in which the device has a layer containing a compound are described in which the device has a layer containing a compound are described by the general formula I (L = a divalent linking group; Q1 and Q2 = independently selected aromatic or aliphatic heterocycle coordinated to Pt through a nitrogen atom; X1 = a 6-membered ring containing ≥ 1 N atoms; Q1, Q2, and X1 independently may have substituents; X2 = S, P, O, or N; and X3 = C, S, or P). Selected complexes are also described, as is light-emitting apparatus, including illumination devices, employing the electroluminescent devices.

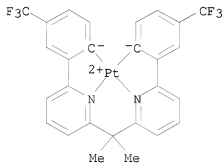
IT 881887-28-1

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(organic electroluminescent devices employing platinum complexes)

RN 881887-28-1 CAPLUS

CN Platinum, [[2,2'-(1-methylethylidene)bis[6-[3-(trifluoromethyl)phenyl]pyridinato]](2-)]- (9CI) (CA INDEX NAME)



L8 ANSWER 17 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:850823 CAPLUS

DOCUMENT NUMBER: 153:188475

TITLE: Organic electroluminescent devices employing arylene-bridged carbazole derivatives

INVENTOR(S): Kinoshita, Ikuo; Takeda, Akira; Ise, Toshihiro; Takizawa, Hiroo; Inoue, Masaaki; Kato, Takashi

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 149pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

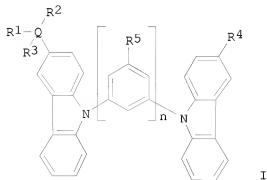
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100171418	A1	20100708	US 2010-683098	20100106
PRIORITY APPLN. INFO.:			JP 2009-1162	A 20090106
			JP 2009-201149	A 20090831

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 153:188475; MARPAT 153:188475
 GI

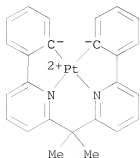


AB Organic electroluminescent devices comprising a pair of electrodes and an organic layer including a light-emitting layer between the electrodes are described in which the organic layers comprises compds. described by the general formula I (R1-3 = independently selected C1-6 alkyl; R4 = H or -Q'(R6)(R7)R8; R5 = H, (un)substituted alkyl, cyano, (un)substituted aryl group, or (un)substituted heteroaryl; R6-8 = independently selected C1-6 alkyl; Q, Q' = independently selected C or Si; and n = 1 or 2). The light-emitting layer may addnl. comprise ≥ 1 metal (especially Pt) complex and/or an adamantane derivative

IT 808111-97-9 881887-26-9 881887-28-1
 881887-29-2 1227925-61-2 1234267-56-1
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent devices employing arylene-bridged carbazole derivs.)

RN 808111-97-9 CAPLUS

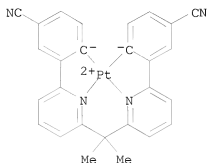
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

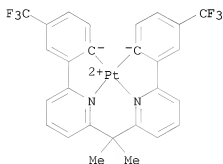
10/578,039

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



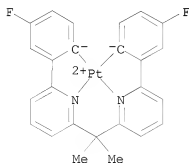
RN 881887-28-1 CAPLUS

CN Platinum, [[2,2'-(1-methylethylidene)bis[6-[3-(trifluoromethyl)phenyl]pyridinato]](2-)]- (9CI) (CA INDEX NAME)



RN 881887-29-2 CAPLUS

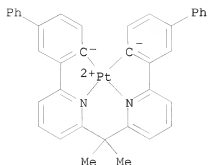
CN Platinum, [[2,2'-(1-methylethylidene)bis[6-(3-fluorophenyl)pyridinato]](2-)]- (9CI) (CA INDEX NAME)



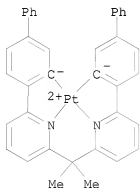
RN 1227925-61-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)[1,1'-biphenyl]-3,4-diyl-κC4]]-, (SP-4-2)- (CA INDEX NAME)

10/578,039



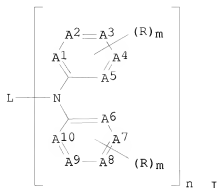
RN 1234267-56-1 CAPLUS
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)[1,1'-biphenyl]-4,3-diyl-κC3]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 18 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:785427 CAPLUS
DOCUMENT NUMBER: 153:130181
TITLE: Organic electroluminescent device
INVENTOR(S): Kitamura, Tetsu
PATENT ASSIGNEE(S): Fujifilm Corp., Japan
SOURCE: U.S. Pat. Appl. Publ., 56pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100155712	A1	20100624	US 2009-644303	20091222
JP 2010147441	A	20100701	JP 2008-326513	20081222
			JP 2008-326513	A 20081222

PRIORITY APPLN. INFO.:
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 153:130181
GI



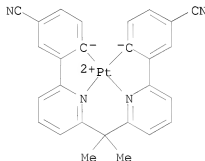
AB An organic electroluminescent device is provided and includes: a cathode; an anode; and a light-emitting layer between the cathode and the anode. The light-emitting layer includes a compound I [L = linking group; A1-10 = C or N, provided that at least two of A1, A5, A6, and A10 = C atom having substituent R'; R' = substituent having a C atom at a bonding position thereof; a plurality of Rs each independently represent a substituent; m = integer, n = integer 2 - 10].

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 19 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:751949 CAPLUS

DOCUMENT NUMBER: 153:103869

TITLE: Organic white electroluminescent devices

INVENTOR(S): Shibata, Kazuyuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 51pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

JP 2010135689	A	20100617	JP 2008-312406	20081208
PRIORITY APPLN. INFO.:			JP 2008-312406	20081208

OTHER SOURCE(S): MARPAT 153:103869

AB A luminescent layer bound between a pair of electrodes in the title organic white electroluminescent device comprises an aggregate luminescent material, a monomer luminescent material, and a host luminescent material, wherein the luminescent peak wavelength for the aggregate luminescent material is longer than that for the monomer luminescent material. The host luminescent materials may be indole derivs. (Q)n-L101 [Q = R101-R106 substituted 1H-indole, R101-105 = H, substituent; R106 = secondary or tertiary alkyl, R101 and R106 may be bonded together to form a ring; L101 = combination group; n101 ≥ 2 int.]. The arranged materials give the organic white electroluminescent devices excellent operational durability.

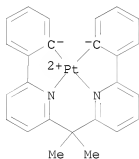
IT 808111-97-9	864541-08-2	916427-56-0
1229620-00-1	1229620-02-3	1229620-06-7
1229620-09-0	1229620-10-3	1229620-11-4
1229620-13-6		

RL: PRPH (Prophetic); PRP (Properties)

(electron transport phosphorescent material; organic white electroluminescent devices provided with host luminescent indole derivative materials)

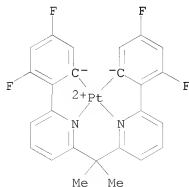
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



RN 864541-08-2 CAPLUS

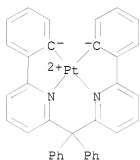
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



10/578,039

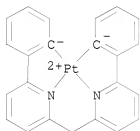
RN 916427-56-0 CAPLUS

CN Platinum, [(diphenylmethylene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC1]]-, (SP-4-2)- (CA INDEX NAME)



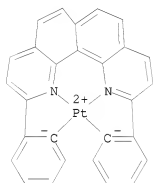
RN 1229620-00-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



RN 1229620-02-3 CAPLUS

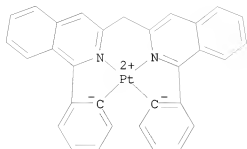
CN INDEX NAME NOT YET ASSIGNED



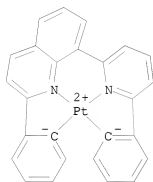
RN 1229620-06-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

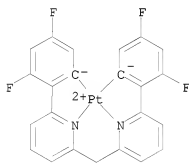
10/578,039



RN 1229620-09-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

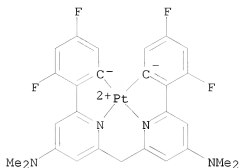


RN 1229620-10-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

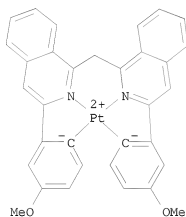


RN 1229620-11-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

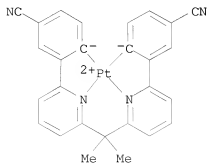
10/578,039



RN 1229620-13-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



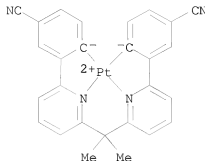
IT 881887-26-9
RL: PRPH (Prophetic); PRP (Properties)
(green phosphorescent material; organic white electroluminescent devices
provided with host luminescent indole derivative materials)
RN 881887-26-9 CAPLUS
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN) (4-cyano-2,1-
phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 20 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:746879 CAPLUS
 DOCUMENT NUMBER: 153:73062
 TITLE: Organic electroluminescent element
 INVENTOR(S): Shibata, Kazuyuki; Satou, Tasuku
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: PCT Int. Appl., 132pp.
 CODEN: F1XXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010067708	A1	20100617	WO 2009-JP69878	20091125
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2010161060	A	20100722	JP 2009-262875	20091118
PRIORITY APPLN. INFO.:			JP 2008-312325	A 20081208
AB	Disclosed is an organic electroluminescent element that has on a substrate a pair of electrodes and at least one organic layer formed between the electrodes. The organic layer has at least two light-emitting layers and an intermediate layer formed between the light-emitting layers, of which there are at least two. Each of the light-emitting layers, of which there are at least two, contains a phosphorescent material. The phosphorescent material is at least one kind selected from a group comprising blue phosphorescent material having an emission peak of 420 nm to <500 nm, green phosphorescent material having an emission peak of 500 nm to <570 nm, and red phosphorescent material having an emission peak of 570 nm to <650 nm. The phosphorescent materials contained in each of the light-emitting layers have mutually different emission peaks, and the intermediate layer contains a binder material.			
IT	881887-26-9 RL: TEM (Technical or engineered material use); USES (Uses) (organic electroluminescent element)			
RN	881887-26-9 CAPLUS			
CN	Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)			



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 21 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:721861 CAPLUS

DOCUMENT NUMBER: 153:73017

TITLE: Organic electroluminescence device and luminescence apparatus

INVENTOR(S): Shibata, Kazuyuki; Kinoshita, Masaru

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 29pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100140606	A1	20100610	US 2009-634670	20091209
JP 2010161357	A	20100722	JP 2009-279603	20091209
			JP 2008-314813	A 20081210

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

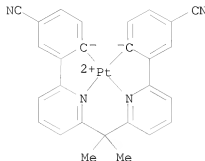
AB The invention provides an organic EL device including a pair of electrodes and at least one luminescent layer located between the pair of electrodes, the luminescent layer including a blue phosphorescent material having a luminescence peak in a range of from 420 nm to <500 nm, a green phosphorescent material having a luminescence peak in a range of from 500 nm to <570 nm, a red phosphorescent material having a luminescence peak in a range of from 570 nm to 650 nm, and a charge-transporting material, the charge-transporting material having a lowest excited triplet energy level (T1) of ≥ 2.7 eV, and the T1 of the charge-transporting material being higher than the T1 of the blue phosphorescent material by ≥ 0.08 eV.

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescence device and luminescence apparatus)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 22 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:721857 CAPLUS

DOCUMENT NUMBER: 153:73016

TITLE: Organic electroluminescence device and luminescence apparatus

INVENTOR(S): Shibata, Kazuyuki; Kinoshita, Masaru; Satou, Tasuku

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 66pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100140605	A1	20100610	US 2009-632825	20091208
JP 2010161356	A	20100722	JP 2009-279602	20091209
			JP 2008-314812	A 20081210

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

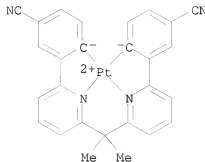
AB The invention provides an organic EL device including a pair of electrodes and at least one luminescent layer between the pair of electrodes, the at least one luminescent layer including at least two phosphorescent materials, an elec. inert material, and a charge-transporting material, the at least two phosphorescent materials being selected from a blue phosphorescent material having a luminescence peak in a range of from 420 nm to <500 nm, a green phosphorescent material having a luminescence peak in a range of from 500 nm to <570 nm, or a red phosphorescent material having a luminescence peak in a range of from 570 nm to 650 nm. The invention also provides a luminescence apparatus including the above organic EL device.

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescence device and luminescence apparatus)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 23 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:721850 CAPLUS
 DOCUMENT NUMBER: 153:73015
 TITLE: Organic electroluminescence device
 INVENTOR(S): Sotoyama, Wataru
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 80pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100140602	A1	20100610	US 2009-628241	20091201
JP 2010140950	A	20100624	JP 2008-313239	20081209
PRIORITY APPLN. INFO.:			JP 2008-313239	A 20081209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

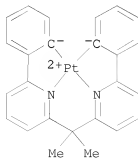
AB There is provided an organic electroluminescence device comprising a pair of electrodes on a substrate and at least one organic layer containing a luminescence layer between the electrodes, the luminescence layer comprising at least 3 luminescence materials different in luminescent color, and the at least 3 luminescence materials being Pt complexes.

IT 808111-97-9 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescence device)

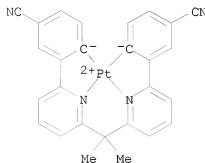
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 24 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:720672 CAPLUS

DOCUMENT NUMBER: 153:49004

TITLE: Organic field light emitting device

INVENTOR(S): Kinoshita, Masaru

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 43pp.; Chemical Indexing
Equivalent to 153:24314 (WO)

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

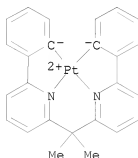
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010129252	A	20100610	JP 2008-300467	20081126
WO 2010061788	A1	20100603	WO 2009-JP69700	20091120
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: JP 2008-300467 A 20081126

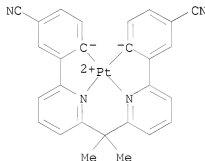
AB Provided is an organic field light emitting device having a high light emission efficiency and an improved degree of color misalignment. The organic field light emitting device includes on a substrate: an anode, a light emitting layer, and a cathode which are arranged in this order. The light emitting layer has a 1st light emitting layer, a 2nd light emitting layer, and a 3rd light emitting layer which are arranged in this order when viewed from the anode side. The 1st light emitting layer and the 3rd light emitting layer emit light of the same color. The 2nd light emitting layer emits light of a color different from the color of the light emitted from the 1st light emitting layer and the 3rd light emitting layer. At

least 1 of the 1st, the 2nd, and the 3rd light emitting layer contains a phosphorescent light emitting material which emits light having a peak wavelength in the range from 500 nm to 570 nm and a phosphorescent light emitting material which emits light having a peak wavelength of 570 nm or above.

IT 808111-97-9 881887-26-9
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (organic field light emitting element)
 RN 808111-97-9 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 25 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:688806 CAPLUS
 DOCUMENT NUMBER: 153:24335
 TITLE: Organic electroluminescent device
 INVENTOR(S): Satou, Tasuku; Kinoshita, Masaru; Tobise, Manabu
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 30pp.; Chemical Indexing
 Equivalent to 152:603691 (WO)
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010123716	A	20100603	JP 2008-295332	20081119
WO 2010058716	A1	20100527	WO 2009-JP69133	20091110
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.:

JP 2008-295332

A 20081119

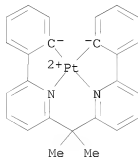
AB Disclosed is an organic electroluminescent device with which high light-emission efficiency can be obtained with a low drive voltage. The organic electroluminescent device comprises, in order from the substrate side, a 1st electrode, a 1st hole injection layer, a 2nd hole injection layer, a light-emitting layer, and a 2nd electrode, on the substrate, with the 1st hole injection layer being in contact with the 1st electrode and containing a metal oxide, and the 2nd hole injection layer containing a hole transport material and an organic electron acceptor.

IT 808111-97-9

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent device)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 26 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:683332 CAPLUS

DOCUMENT NUMBER: 153:24325

TITLE: Organic electroluminescent element and method for manufacturing it

INVENTOR(S): Hayashi, Shigeyuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 33pp.; Chemical Indexing

Equivalent to 152:603689 (WO)

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010123512	A	20100603	JP 2008-298348	20081121
WO 2010058690	A1	20100527	WO 2009-JP68605	20091029

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

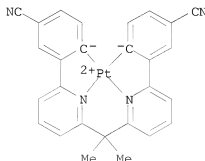
PRIORITY APPLN. INFO.: JP 2008-298348 A 20081121

AB The invention relates to a method for manufacturing an organic electroluminescent element which comprises, between a pair of electrodes, at least one organic layer including a light-emitting layer to achieve high luminance efficiency, lower driving voltage and long-lasting. At least one organic layer contains at least one kind of alkali metal, alkaline earth metal or salt of the metals. During or after film formation of the organic layer containing at least one kind of alkali metal, alkaline earth metal or salt of the metals, the method includes a heat treatment step wherein a heat treatment is carried out at a temperature not less than 50° but not more than the m.p. of the organic layer containing at least one kind of alkali metal, alkaline earth metal or salt of the metals, or alternatively a current application step wherein a current is applied.

IT 881887-26-9 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (organic electroluminescent element and method for manufacturing it)

RN 881887-26-9 CAPLUS

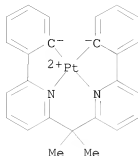
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 27 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:680137 CAPLUS
 DOCUMENT NUMBER: 153:24314
 TITLE: Organic field light emitting device

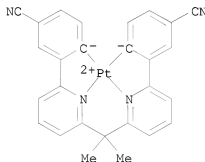
INVENTOR(S): Kinoshita, Masaru
 PATENT ASSIGNEE(S): FujiFilm Corporation, Japan
 SOURCE: PCT Int. Appl., 71pp.; Chemical Indexing Equivalent to
 153:49004 (JP)
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010061788	A1	20100603	WO 2009-JP69700	20091120
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2010129252	A	20100610	JP 2008-300467	20081126
PRIORITY APPLN. INFO.:			JP 2008-300467	A 20081126
AB	Provided is an organic field light emitting device having a high light emission efficiency and an improved degree of color misalignment. The organic field light emitting device includes on a substrate: an anode, a light emitting layer, and a cathode which are arranged in this order. The light emitting layer has a 1st light emitting layer, a 2nd light emitting layer, and a 3rd light emitting layer which are arranged in this order when viewed from the anode side. The 1st light emitting layer and the 3rd light emitting layer emit light of the same color. The 2nd light emitting layer emits light of a color different from the color of the light emitted from the 1st light emitting layer and the 3rd light emitting layer. At least 1 of the 1st, the 2nd, and the 3rd light emitting layer contains a phosphorescent light emitting material which emits light having a peak wavelength in the range from 500 nm to 570 nm and a phosphorescent light emitting material which emits light having a peak wavelength of 570 nm or above.			
IT	808111-97-9	881887-26-9		
	RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)			
	(organic field light emitting element)			
RN	808111-97-9	CAPLUS		
CN	Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)			



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 28 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:656929 CAPLUS

DOCUMENT NUMBER: 152:603691

TITLE: Organic electroluminescent device

INVENTOR(S): Satou, Tasuku; Kinoshita, Masaru; Tobise, Manabu

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 52pp.; Chemical Indexing Equivalent to 153:24335 (JP)

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010058716	A1	20100527	WO 2009-JP69133	20091110
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,				

IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,
SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 201012376 A 20100603 JP 2008-295332 20081119

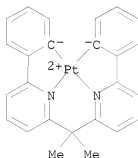
PRIORITY APPLN. INFO.: JP 2008-295332 A 20081119

AB Disclosed is an organic electroluminescent device with which high light-emission efficiency can be obtained with a low drive voltage. The organic electroluminescent device comprises, in order from the substrate side, a 1st electrode, a 1st hole injection layer, a 2nd hole injection layer, a light-emitting layer, and a 2nd electrode, on the substrate, with the 1st hole injection layer being in contact with the 1st electrode and containing a metal oxide, and the 2nd hole injection layer containing a hole transport material and an organic electron acceptor.

IT 808111-97-9
RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 29 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:656764 CAPLUS

DOCUMENT NUMBER: 152:603689

TITLE: Organic electroluminescent element and method for manufacturing it

INVENTOR(S): Hayashi, Masayuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 64pp.; Chemical Indexing Equivalent to 153:24325 (JP)

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010058690	A1	20100527	WO 2009-JP68605	20091029
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,				

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG,
 PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,
 SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
 ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 2010123512 A 20100603 JP 2008-298348 20081121

PRIORITY APPLN. INFO.: JP 2008-298348 A 20081121

AB The invention relates to a method for manufacturing an organic
 electroluminescent

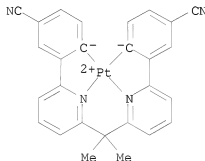
element which comprises, between a pair of electrodes, at least one organic
 layer including a light-emitting layer to achieve high luminance
 efficiency, lower driving voltage and long-lasting. At least one organic
 layer contains at least one kind of alkali metal, alkaline earth metal or salt
 of the metals. During or after film formation of the organic layer containing

at least one kind of alkali metal, alkaline earth metal or salt of the metals,
 the method includes a heat treatment step wherein a heat treatment is
 carried out at a temperature not less than 50°C but not more than the
 m.p. of the organic layer containing at least one kind of alkali metal,
 alkaline
 earth metal or salt of the metals, or alternatively a current application
 step wherein a current is applied.

IT 881887-26-9
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
 (organic electroluminescent element and method for manufacturing it)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-
 phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)

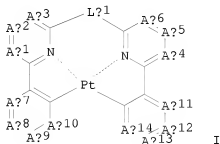


REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 30 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:651989 CAPLUS
 DOCUMENT NUMBER: 153:24285
 TITLE: Organic electroluminescent element
 INVENTOR(S): Shibata, Kazuyuki; Sotoyama, Wataru
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: PCT Int. Appl., 76pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND		DATE	APPLICATION NO.		DATE	
WO 2010058787	A1		20100527	WO 2009-JP69543		20091118	
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW						
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM						
JP 2010153820	A		20100708	JP 2009-261891		20091117	
PRIORITY APPLN. INFO.:			JP 2008-298212		A 20081121		
OTHER SOURCE(S):			MARPAT 153:24285				
GI							



AB Disclosed is an organic electroluminescent element for which an organic compound

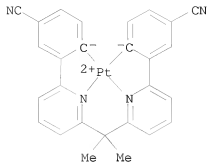
layer that contains at least a light-emitting layer, a 1st electron transport layer provided in contact with the cathode-side interface of the aforementioned light-emitting layer, and a 2nd electron transport layer provided in contact with the cathode-side interface of the aforementioned 1st electron transport layer, is sandwiched between a pair of electrodes; the aforementioned light-emitting layer contains at least a light-emitting material I [AC15, AC16 = C-R or N; R = H or substituent; LC1 = single bond or divalent linking group] and a hole transportable host material; and the aforementioned 2nd electron transport layer contains an electron-transportable material phenanthrene option substituted with (R1)_n group [R1 = H or C1-10 alkyl(un)substituted C630 aryl; n = 0 - 8] and at least one type selected from a group comprised of an alkali metal, an alkali metal salt, an alkali earth metal, and an alkali earth metal salt.

IT 881887-26-9 881887-28-1 1227925-61-2
RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent element)

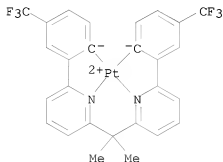
RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]], (SP-4-2)- (CA INDEX NAME)

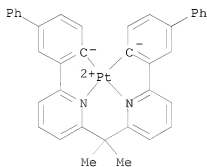
10/578,039



RN 881887-28-1 CAPLUS
CN Platinum, [[2,2'-(1-methylethylidene)bis[6-[3-(trifluoromethyl)phenyl]pyridinato]](2-)]- (9CI) (CA INDEX NAME)



RN 1227925-61-2 CAPLUS
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN) [1,1'-biphenyl]-3,4-diyl-κC4]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 31 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:629008 CAPLUS
DOCUMENT NUMBER: 152:592160
TITLE: Group IVA element arylamido complexes as materials for organic electroluminescent devices
INVENTOR(S): Stoessel, Philipp; Heil, Holger; Joosten, Dominik; Pflumm, Christof; Gerhard, Anja

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 77pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010054729	A2	20100520	WO 2009-EP7361	20091014
WO 2010054729	A3	20100930		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
DE 102008056688	A1	20100512	DE 2008-102008056688	20081111

PRIORITY APPLN. INFO.: DE 2008-102008056688A 20081111

OTHER SOURCE(S): MARPAT 152:592160

AB Group IVA element compds., M[R2N-R1A-R1B(R1D-R1E)qY]mR44-2m [1, M = Si, Ge, Sn, Ti, Zr, Hf, preferably M = Si; R4 = alkyl, aryl; m = 1, 2; q = 0, 1; A, B, D, E = double- or single-bonded carbon, A-B and/or E-Y may be a part of an aromatic ring; Y = amino, O, S; R1 = H, halo, CN, NO2, amino, Cl-40 alkyl, alkoxy, alkylthio, alkenyl, (hetero)aryl, aryloxy; R2 = alkyl, cycloalkyl, (hetero)aryl, complexes
 M[R2N-R1A-R1B(R1D-R1E)qY]mR46-2m (M = Cr, Mo, W) preferably compds. 1 are non-porphyrinato or porphyrinato-like, useful as electron- or exciton-blocking matrix materials for light-emitting layers of electroluminescent devices, were prepared (M = Si) by reaction of the corresponding deprotonated amines with Si precursors SiCl4, R42SiCl2 and tested as additives for electron-blocking layers and light-emitting layers (3-30%), which substantially increased efficiency of phosphorescent substances, such as tris(phenylpyridine)iridium. In an example, reaction of 300 mmol of the diamine Q(NHAr)2 (Q = 1,2-C6H4, 4,5-Me2-1,2-C6H2, 1,1'-biphenyl-2,2-diyl; Ar = Ph, MeC6H4, PhC6H4) with 600 mmol of BuLi in 2 L of Et2O followed by addition of 150 mmol of SiCl4 gave compds. 1, Si[Q(NAr2)]2 (1a, same Q, Ar) with 27-61% yields. In another example, an organic light-emitting device (OLED), having the compound 1, Si[1,2-C6H4(NPh)2]2 (1b) as a electron-blocking layer and as a dopant to light-emitting layer, consisting of bis(1,1':3'',1'':3''',1''':3''',1''''-quinquephenyl-5''-yl)methanone (M1), doped with 10% of 1b and 10% of tris(2-phenylpyridine)iridium, showed an efficiency of 54 cd/A, compared to 32.8 cd/A for similar device without 1b.

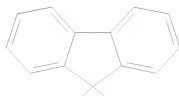
IT 1227140-79-5
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (preparation of silicon chelate tetramides and diorganosilane diamides as additives for electron- and exciton-blocking layers, dopants for OLED light-emitting layers)

RN 1227140-79-5 CAPLUS

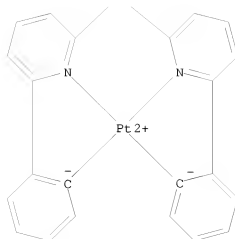
CN Platinum, [9H-fluoren-9-ylidenebis[(6,2-pyridinediyl-κN)-2,1-

phenylene- κ C1]]-, (SP-4-2)- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L8 ANSWER 32 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:625476 CAPLUS
 DOCUMENT NUMBER: 152:579240
 TITLE: Organic electroluminescent elements employing sequentially formed Al and Ag electrode layers
 INVENTOR(S): Kitamura, Yoshitaka
 PATENT ASSIGNEE(S): FujiFilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 24pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100123126	A1	20100520	US 2009-617736	20091113
JP 2010123439	A	20100603	JP 2008-296859	20081120
PRIORITY APPLN. INFO.:			JP 2008-296859	A 20081120

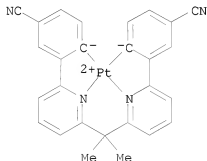
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Organic electroluminescent elements are described which comprise a first electrode, an organic layer including at least a light emitting layer, and a second electrode, disposed in this order, where the second electrode comprises, starting from the side of the organic layer, an aluminum (Al) layer having a thickness of 0.1 nm to 10 nm and a silver (Ag) layer having a thickness of 3 nm to 50 nm. Preferably, the organic layer includes an electron injection layer doped with an alkali metal, and a layer of an alloy of Al and Li is disposed between the organic layer and the second electrode.

IT 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (OLED employing sequentially formed Al and Ag electrode layers)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 33 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:568075 CAPLUS

DOCUMENT NUMBER: 152:537783

TITLE: Organic electroluminescent element

INVENTOR(S): Hayashi, Masayuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11pp.; Chemical Indexing
 Equivalent to 152:537678 (WO)
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

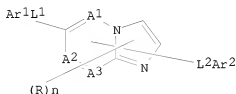
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2010103306 A 20100506 JP 2008-273308 20081023
 WO 2010047279 A1 20100429 WO 2009-JP67902 20091016

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
 CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
 ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE,
 KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG,
 PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,
 SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG, BW, GH, GM, KE, LS, MW, MJ, NA, SD, SL, SZ, TZ, UG,
 ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2008-273308 A 20081023
 GI



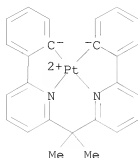
AB Disclosed is an organic electroluminescent element that comprises a luminescent layer containing an electron transport phosphorescent material, a cathode, and an electron transport layer provided between the luminescent layer and the cathode, where in the electron transport layer contains a N-containing heterocyclic compound I [A1-3 = N or C; Ar1 = (un)substituted

C6-60 aryl or (un)substituted C3-60 heteroaryl; Ar2 = H, (un)substituted C6-60 aryl, C3-60 heteroaryl, C1-20 alkyl, or C1-20 alkoxy, provided that either Ar1 or Ar2 represents a (un)substituted C10-60 condensed ring or C3-60 monohetero condensed ring; L1,2 = single bond, (un)substituted C6-60 arylene, C3-60 heteroarylene, or fluorenylene; R = H, (un)substituted C6-60 aryl, C3-60 heteroaryl, C1-20 alkyl, or C1-20 alkoxy; n = integer of 0 to 5; if n > 2, adjacent R's may join to form aliphatic or aromatic rings].

IT 808111-97-9 864541-08-2 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent element)

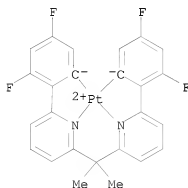
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



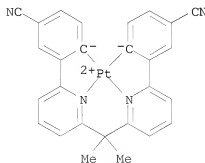
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 34 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:530402 CAPLUS

DOCUMENT NUMBER: 152:537678

TITLE: Organic electroluminescent element

INVENTOR(S): Hayashi, Masayuki

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 171pp.; Chemical Indexing Equivalent

to 152:537783 (JP)

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

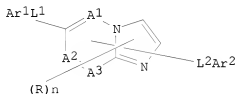
Japanese

FAMILY ACC. NUM. COUNT:

2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010047279	A1	20100429	WO 2009-JP67902	20091016
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM JP 2010103306 A 20100506 JP 2008-273308 20081023 PRIORITY APPLN. INFO.: JP 2008-273308 A 20081023 OTHER SOURCE(S): MARPAT 152:537678 GI				



I

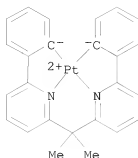
AB Disclosed is an organic electroluminescent element that comprises a luminescent layer containing an electron transport phosphorescent material, a cathode, and an electron transport layer provided between the luminescent layer and the cathode, where in the electron transport layer contains a N-containing heterocyclic compound I [A1-3 = N or C; Ar1 = aryl or heteroaryl; Ar2 = H, aryl, heteroaryl, alkyl, or alkoxy, provided that any one of Ar1 and Ar2 represents a condensed ring group or a monohetero condensed ring group; L1,2 = single bond, arylene, heteroarylene, or fluorenylene; R = H, aryl, heteroaryl, alkyl, or alkoxy; n = integer of 0 to 5].

IT 808111-97-9 864541-08-2 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent element)

RN 808111-97-9 CAPLUS

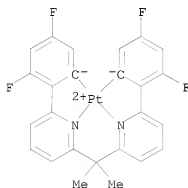
CN Platinum, [(1-methylethylidene)bis{[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]}], (SP-4-2)- (CA INDEX NAME)

10/578,039



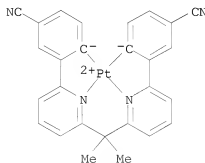
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 35 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:412939 CAPLUS

DOCUMENT NUMBER: 152:443958

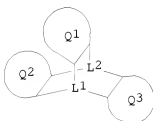
TITLE: Polyheterocyclic organic electroluminescent devices

INVENTOR(S): Takada, So

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 65pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2010074111	A	20100402	JP 2008-243383	20080922
PRIORITY APPLN. INFO.:			JP 2008-243383	20080922
OTHER SOURCE(S):	MARPAT	152:443958		

GI



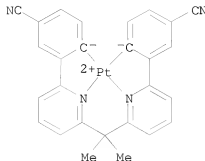
I

AB The title polyheterocyclic organic electroluminescent device has ≥ 1 organic electroluminescent layer(s) bound between a pair of electrodes, wherein the organic electroluminescent layer(s) contain (1) a polyheterocyclic organic electroluminescent material [I: Q1-3 = aromatic hydrocarbon ring, aromatic heterocyclic ring; L1-2 = CR11, N, P, SiR12; C11-12 = H, substituent] and (2) a phosphorescent material. Polyheterocyclic organic electroluminescent materials provides the organic electroluminescent devices with excellent emission efficiency and excellent emission coloring.

IT 881887-26-9
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (electroluminescent material; polyheterocyclic organic electroluminescent devices)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ Cl)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 36 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:274962 CAPLUS

DOCUMENT NUMBER: 152:322352

TITLE: Organic electroluminescent devices having high luminous efficiency and low driving voltage and employing nitrogen-containing heterocyclic phosphorescent compounds

INVENTOR(S): Fukuzaki, Eiji

PATENT ASSIGNEE(S): Fujifilm Corp., Japan

SOURCE: U.S. Pat. Appl. Publ., 68pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

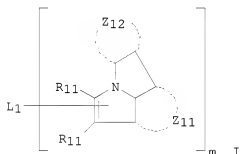
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100051928	A1	20100304	US 2009-554338	20090904
JP 2010087496	A	20100415	JP 2009-203152	20090902
			JP 2008-227269	A 20080904

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 152:322352

GI



AB Organic electroluminescent devices having high luminous efficiency and low driving voltage are described which comprise a pair of electrodes; and at least one organic layer including a light emitting layer, the light emitting layer being provided between the pair of electrodes, where at least one layer of the at least one organic layer contains a compound represented by

formula (I), where each of Z11 and Z12 independently represents an aromatic heterocyclic ring or an aromatic hydrocarbon ring; R11 represents a hydrogen atom or a substituent, provided that a plurality of R11s are the same or different; m represents an integer of 1 or more; and L1 represents a single bond or an m-valent linking group and is linked to any one of C atoms in R11, Z11 and Z12, provided that when m is 1, L1 does not exist.

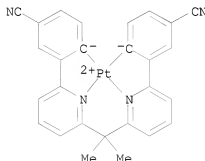
IT 881887-26-9

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(light-emitting layer containing; organic electroluminescent devices having high luminous efficiency and low driving voltage and employing nitrogen-containing heterocyclic phosphorescent compds.)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 37 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:274249 CAPLUS

DOCUMENT NUMBER: 152:346987

TITLE: Color electroluminescent display and method for producing the same
Sakamoto, Yoshiaki

INVENTOR(S):
PATENT ASSIGNEE(S): FujiFilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 23pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20100053038	A1	20100304	US 2009-506273	20090721
JP 2010056016	A	20100311	JP 2008-221880	20080829
PRIORITY APPLN. INFO.:			JP 2008-221880	A 20080829

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

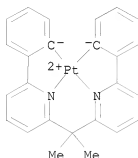
AB A color display is described which includes a plurality of pixels on a substrate, each pixel being area-divided into plural sub-pixels including at least two sub-pixels that each emit colored light of different wavelengths and a white sub-pixel, wherein the at least two sub-pixels and the white sub-pixel each have at least an optical path length-adjusting layer and an organic electroluminescent layer interposed between a layer that partially transmits light and partially reflects light and a light reflection layer to form a resonator structure.

IT 808111-97-9

RL: TEM (Technical or engineered material use); USES (Uses)
(color electroluminescent display containing white light-emitting subpixels
for rich color reproduction and gradation)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-
phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 38 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:265564 CAPLUS

DOCUMENT NUMBER: 152:322707

TITLE: Color electroluminescent display device and method for
manufacturing the same

INVENTOR(S): Kinoshita, Masaru

PATENT ASSIGNEE(S): Fujifilm Corp., Japan

SOURCE: Eur. Pat. Appl., 28pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

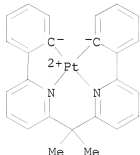
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2159843	A2	20100303	EP 2009-10980	20090827
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, AL, BA, RS				
JP 2010056017	A	20100311	JP 2008-221881	20080829
US 20100052524	A1	20100304	US 2009-544239	20090820
CN 101661951	A	20100303	CN 2009-10170452	20090826
PRIORITY APPLN. INFO.:			JP 2008-221881	A 20080829

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Disclosed is a color display device containing plural pixels on a substrate, each pixel is composed of plural sub-pixels which emit lights different in wavelength in the visible range and a white sub-pixel, the plural sub-pixels and the white sub-pixel each have a white organic electroluminescence layer interposed between an optically semitransparent reflection layer and a light reflection layer, the optical distance between the optically semitransparent reflection layer and the light reflection layer in each of the plural sub-pixels forms a resonator having a distance for resonating emitted light, and the optical distance between the optically semitransparent reflection layer and the light reflection layer in the white sub-pixel is longer than the maximum optical distance between the optically semitransparent reflection layer and the light

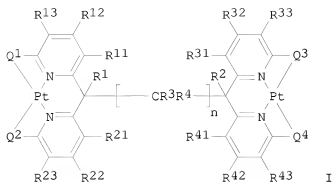
reflection layer in each of the plural sub-pixels.
 IT 808111-97-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (color electroluminescent display device and method for manufacturing the
 same)
 RN 808111-97-9 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-
 phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L8 ANSWER 39 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:1598341 CAPLUS
 DOCUMENT NUMBER: 152:107817
 TITLE: Organic electroluminescent device
 INVENTOR(S): Ise, Toshihiro
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 38pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009302152	A	20091224	JP 2008-152244	20080610
PRIORITY APPLN. INFO.:			JP 2008-152244	20080610
OTHER SOURCE(S):		MARPAT 152:107817		
GI				



AB The invention refers to an organic electroluminescent device comprising a metal complex I [Q1-4 = a groups able to form a covalent bond with Pt; R1-4, R11-13, R21-23, R31-33, R41-43 = H or substituent; n = 0 - 6] in the organic layer.

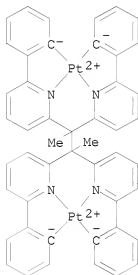
IT 1202171-63-8 1202171-64-9 1202171-65-0

1202171-66-1 1202171-67-2 1202171-68-3

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

RN 1202171-63-8 CAPLUS

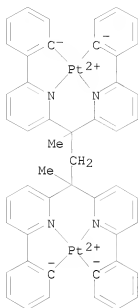
CN Platinum, [μ -(1,2-dimethyl-1,2-ethanediylidene)tetrakis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ Cl]]]di- (CA INDEX NAME)



RN 1202171-64-9 CAPLUS

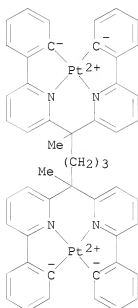
CN Platinum, [μ -(1,3-dimethyl-1,3-propanediylidene)tetrakis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ Cl]]]di- (CA INDEX NAME)

10/578,039



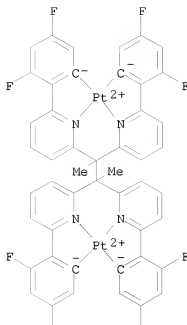
RN 1202171-65-0 CAPLUS

CN Platinum, [μ -[(1,5-dimethyl-1,5-pentanediyliene)tetrakis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ Cl]]]di- (CA INDEX NAME)

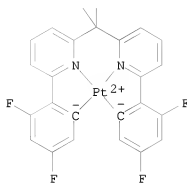
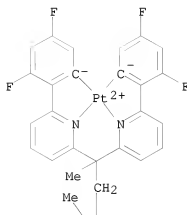


RN 1202171-66-1 CAPLUS

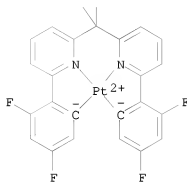
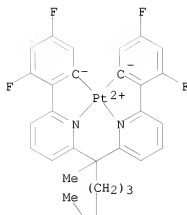
CN Platinum, [μ -[(1,2-dimethyl-1,2-ethanediylidene)tetrakis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ Cl)]]]di- (CA INDEX NAME)



RN 1202171-67-2 CAPLUS
 CN Platinum, [μ-[(1,3-dimethyl-1,3-propanediylidene)tetrakis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC1)]]]di- (CA
 INDEX NAME)

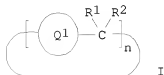


RN 1202171-68-3 CAPLUS
 CN Platinum, [μ-[(1,5-dimethyl-1,5-pentanediyldiene)tetrakis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC1)]]]di- (CA
 INDEX NAME)



L8 ANSWER 40 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1365572 CAPLUS
DOCUMENT NUMBER: 151:539991
TITLE: Organic electroluminescent device
INVENTOR(S): Ise, Toshihiro; Sano, Satoshi; Murakami, Takeshi
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 106pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009260286	A	20091105	JP 2009-53876	20090306
PRIORITY APPLN. INFO.:			JP 2008-74723	A 20080321
OTHER SOURCE(S):	MARPAT	151:539991		
GI				

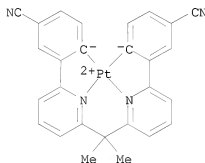


AB The invention relate to an organic electroluminescent device, comprising a compound represented by I [n = integer ≥ 3 ; Q1 = benzene ring and aromatic heterocyclic single ring; and R1 and R2 = H and substituent].

IT 881887-26-9
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent device)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)](4-cyano-2,1-phenylene- κ Cl)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 41 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1202344 CAPLUS

DOCUMENT NUMBER: 151:414282

TITLE: Organic electroluminescent device

INVENTOR(S): Fukuzaki, Eiji

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 101pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

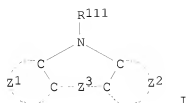
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009224762	A	20091001	JP 2009-2057	20090107
PRIORITY APPLN. INFO.:			JP 2008-36434	A 20080218
OTHER SOURCE(S):	MARPAT	151:414282		

GI



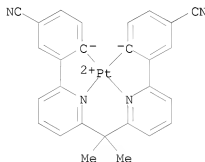
AB The invention relates to an organic electroluminescent device, comprising the compound represented by I [Z1 = aromatic heterocyclic residue; Z2 = aromatic heterocyclic residue and aromatic hydrocarbon ring residue; Z3 = divalent linking group and single bond; R11 = H and substituent group] and a Pt complex containing a tetradentate ligands.

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 42 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1135632 CAPLUS

DOCUMENT NUMBER: 151:369636

TITLE: Organic electroluminescent device

INVENTOR(S): Kitamura, Yoshitaka; Tobiyo, Manabu; Kinoshita, Masaji

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 88pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009212235	A	20090917	JP 2008-52505	20080303
PRIORITY APPLN. INFO.:			JP 2008-52505	20080303

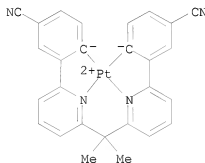
AB The invention refers to an organic electroluminescent device comprising a luminescent layer and an electron transport layer between a cathode and an anode, wherein the luminescent layer contains an electron transporting

luminescent material, and a hole transporting host material, and the concentration of the electron transporting luminescent material gradually increases from the anode side to the cathode side, and the electron transport layer contains a hole transporting material and electron transporting material, and the concentration of the hole transporting material in the electron transport layer gradually decreases from the anode side to the cathode side or the concentration of electron transporting material gradually increases from the anode side to the cathode side.

IT 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent device)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 43 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1080102 CAPLUS

DOCUMENT NUMBER: 151:347264

TITLE: Organic electroluminescent devices using adamantane derivatives in the charge transport layers

INVENTOR(S): Shibata, Kazuyuki; Sotoyama, Wataru; Tobise, Manabu; Takeda, Akira

PATENT ASSIGNEE(S): Fujifilm Corp., Japan

SOURCE: U.S. Pat. Appl. Publ., 61pp.
 CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

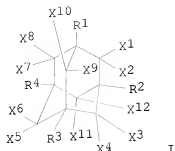
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090218936	A1	20090903	US 2009-379517	20090224
JP 2010161326	A	20100722	JP 2009-37105	20090219
PRIORITY APPLN. INFO.:			JP 2008-48629	A 20080228
			JP 2008-313240	A 20081209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 151:347264

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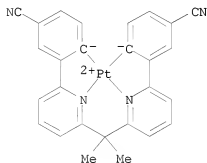
AB Organic electroluminescent devices comprising ≥ 1 organic compound layer including a light-emitting layer disposed between a pair of electrodes are described which are provided with a charge transport layer adjacent to the light-emitting layer which contains a charge transporting material and a compound described by the general formula I (R1-4 = independently selected H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, aryl, heteroaryl, C1-6 alkoxy, acyl, acyloxy, amino, nitro, cyano, ester, amido, halo, C1-6 perfluoroalkyl, or silyl; ≥ 1 of R1-4 = a group having a double bond or a triple bond; and X1-12 = independently selected H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, aryl, heteroaryl, C1-6 alkoxy, acyl, acyloxy, amino, nitro, cyano, ester, amido, halo, C1-6 perfluoroalkyl, or silyl). The light-emitting material may be a metal complex.

IT 881887-26-9

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent devices using adamantane derivs. in charge transport layers)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ Cl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 44 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1080101 CAPLUS

DOCUMENT NUMBER: 151:347263

TITLE: Organic electroluminescent devices using adamantane derivatives in the active layer

INVENTOR(S): Sotoyama, Wataru; Shibata, Kazuyuki; Tobise, Manabu; Takeda, Akira

PATENT ASSIGNEE(S): Fujifilm Corp., Japan

SOURCE: U.S. Pat. Appl. Publ., 98pp.

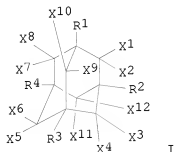
DOCUMENT TYPE: CODEN: USXXCO
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090218935	A1	20090903	US 2009-379489	20090224
JP 2010161325	A	20100722	JP 2009-37104	20090219
PRIORITY APPLN. INFO.:			JP 2008-48628	A 20080228
			JP 2008-315024	A 20081210

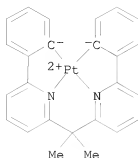
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 151:347263

GI

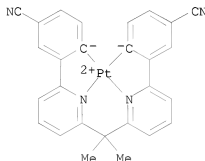


- AB Organic electroluminescence devices which comprise ≥ 1 organic compound layer including a light-emitting layer disposed between a pair of electrodes are described in which the light-emitting layer includes a light-emitting material, a charge transporting material, and a compound described by the general formula I (R1-4 = independently selected H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, aryl, heteroaryl, C1-6 alkoxy, acyl, acyloxy, amino, nitro, cyano, ester, amido, halo, C1-6 perfluoroalkyl, or silyl; ≥ 1 of R1-4 = a group having a double bond or a triple bond; and X1-12 = independently selected H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, aryl, heteroaryl, C1-6 alkoxy, acyl, acyloxy, amino, nitro, cyano, ester, amido, halo, C1-6 perfluoroalkyl, or silyl). The light-emitting material may be a metal complex.
- IT 808111-97-9 881887-26-9
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent devices using adamantane derivs. in the active layer)
- RN 808111-97-9 CAPLUS
- CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 45 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1079992 CAPLUS

DOCUMENT NUMBER: 151:325126

TITLE: Organic electroluminescence element having double electroluminescent layers with electron transporting and hole transporting light-emitting materials with different ratio

INVENTOR(S): Kitamura, Yoshitaka; Tobise, Manabu; Kinoshita, Masaru

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 52pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090218561	A1	20090903	US 2009-379329	20090219
JP 2009211892	A	20090917	JP 2008-52504	20080303
PRIORITY APPLN. INFO.:			JP 2008-52504	A 20080303

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An organic electroluminescence element is described comprising at least two light-emitting layers disposed between an anode and a cathode, wherein the at least two light-emitting layers include a light-emitting layer A that contains an electron transporting light-emitting material and a hole transporting host material, wherein a concentration of the electron transporting

light-emitting material gradually increases from an anode side toward a cathode side of the light-emitting layer A, and a light-emitting layer B that contains a hole transporting light-emitting material and an electron transporting host material, wherein a concentration of the hole transporting light-emitting material gradually decreases from an anode side toward a cathode side of the light-emitting layer B. An organic EL element with high light-emission efficiency and excellent durability is provided.

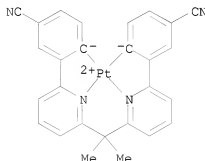
IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(electroluminescent layer host; organic electroluminescence element having double electroluminescent layers with electron transporting and hole transporting light-emitting materials with different ratio)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 46 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1073405 CAPLUS

DOCUMENT NUMBER: 151:325093

TITLE: Organic electroluminescence device having organic layers contains hydrocarbon compound having alkyl structure and charge transporting material

INVENTOR(S): Takeda, Akira; Tobise, Manabu; Satou, Tasuku

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: Eur. Pat. Appl., 46pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2096690	A2	20090902	EP 2009-2857	20090227
EP 2096690	A3	20110119		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, RS				
JP 2009231807	A	20091008	JP 2009-2059	20090107
US 20090218938	A1	20090903	US 2009-392289	20090225
CN 101521264	A	20090902	CN 2009-10126609	20090227
KR 2009093894	A	20090902	KR 2009-17100	20090227
PRIORITY APPLN. INFO.:			JP 2008-48509	A 20080228
			JP 2009-2059	A 20090107

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An organic electroluminescence device is described comprising a pair of electrodes; and at least one organic layer including a light-emitting layer being provided between the pair of electrodes, wherein at least any one of the at least one organic layer contains both at least one hydrocarbon compound having an alkyl structure and a charge transporting material.

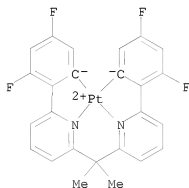
IT 864541-08-2 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(light emitting material; organic electroluminescence device having organic layers contains hydrocarbon compound having alkyl structure and charge transporting material for preferably lowering driving voltage)

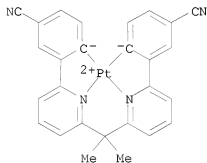
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L8 ANSWER 47 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1028742 CAPLUS

DOCUMENT NUMBER: 151:381856

TITLE: Norbornene-Based Copolymers Containing Platinum Complexes and Bis(carbazolyl)benzene Groups in Their Side-Chains

AUTHOR(S): Feng, Ke; Zuniga, Carlos; Zhang, Ya-Dong; Kim, Dongwook; Barlow, Stephen; Marder, Seth R.; Bredas, Jean Luc; Weck, Marcus

CORPORATE SOURCE: School of Chemistry and Biochemistry, Georgia
Institute of Technology, Atlanta, GA, 30332, USA

SOURCE: Macromolecules (Washington, DC, United States) (2009),
42(18), 6855-6864
CODEN: MAMOBX; ISSN: 0024-9297

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

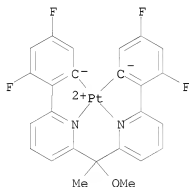
OTHER SOURCE(S): CASREACT 151:381856

AB Two norbornene-functionalized tetradentate cyclometalated platinum(II)
complexes were synthesized and copolymerized with a
bis(carbazolyl)benzene-based comonomer using ring-opening metathesis
polymerization (ROMP). The copolymers are soluble in common solvents and the
mol. wts. of these copolymers can be well controlled as a result of the living
character of the ROMP. The photophys. and electrochem. properties of the
copolymers were compared to their corresponding small mol. The
copolymers showed almost identical photophys. and electrochem. properties
demonstrating the inertness of the polymer backbone toward the photophys.
properties of the tethered platinum complexes. All complexes exhibit
bright photoluminescence in the green region with lifetimes around 0.4
 μ s and solution phosphorescence quantum efficiencies as high as 0.56,
which suggest that these materials could be interesting for OLED
applications.

IT 1187677-42-4P 1187677-48-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; norbornene-based copolymers containing platinum
complexes and bis(carbazolyl)benzene groups in their side-chains)

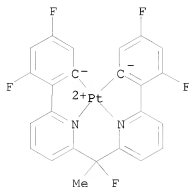
RN 1187677-42-4 CAPLUS

CN Platinum, [(1-methoxyethylidene)bis[(2,6-pyridinediyl- κ N)(4,6-
difluoro-1,2-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

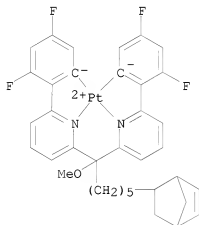


RN 1187677-48-0 CAPLUS

CN Platinum, [(1-fluoroethylidene)bis[(2,6-pyridinediyl- κ N)(4,6-
difluoro-1,2-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

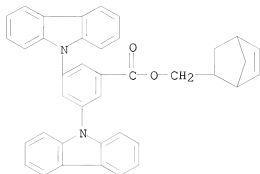


IT 1187677-52-6P 1187677-53-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (norbornene-based copolymers containing platinum complexes and
 bis(carbazolyl)benzene groups in their side-chains)
 RN 1187677-52-6 CAPLUS
 CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-methoxyhexylidene)bis[(2,6-
 pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-,
 polymer with bicyclo[2.2.1]hept-5-en-2-ylmethyl
 3,5-di-9H-carbazol-9-ylbenzoate (CA INDEX NAME)
 CM 1
 CRN 1187677-47-9
 CMF C36 H32 F4 N2 O Pt
 CCI CCS

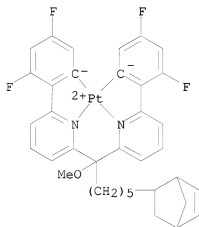


CM 2
 CRN 1167996-20-4
 CMF C39 H30 N2 O2

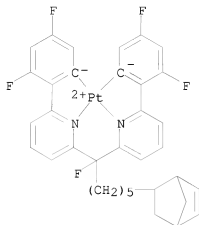
10/578,039



IT 1187677-47-9P 1187677-51-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (norbornene-based copolymers containing platinum complexes and
 bis(carbazolyl)benzene groups in their side-chains)
 RN 1187677-47-9 CAPLUS
 CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-methoxyhexylidene)bis[(2,6-
 pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-
 (CA INDEX NAME)



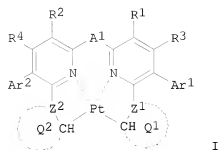
RN 1187677-51-5 CAPLUS
 CN Platinum, [(6-bicyclo[2.2.1]hept-5-en-2-yl-1-fluorohexylidene)bis[(2,6-
 pyridinediyl-κN)(4,6-difluoro-1,2-phenylene-κC)]]-, (SP-4-2)-
 (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)
REFERENCE COUNT: 85 THERE ARE 85 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 48 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:732579 CAPLUS
DOCUMENT NUMBER: 151:89517
TITLE: Platinum complex compound and organic
electroluminescence device using the same
INVENTOR(S): Kinoshita, Ikuo; Murakami, Takeshi; Igarashi, Tatsuya
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
SOURCE: Eur. Pat. Appl., 53pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 2070936	A1	20090617	EP 2008-21623	20081212
EP 2070936	B1	20100526		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
JP 2009161524	A	20090723	JP 2008-315788	20081211
US 20090153045	A1	20090618	US 2008-333370	20081212
AT 469160	T	20100615	AT 2008-21623	20081212
PRIORITY APPLN. INFO.:			JP 2007-323682	A 20071214
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 151:89517				
GI				



AB The invention refers to a platinum complex compound I [Ar1,2 = aromatic ring or aromatic heterocyclic; R1-4 = H or substituent; Z1,2 = C or N; Q1 = aromatic or aromatic heterocycle containing C atom and Z1, and Q2 = aromatic or aromatic heterocycle ring containing C atom and Z2; and A1 = single bond or divalent linking group].

IT 1160958-76-8 1160958-78-0 1160958-80-4

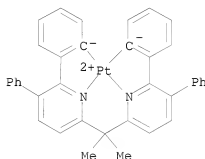
1160958-81-5

RL: TEM (Technical or engineered material use): USES (Uses)

(platinum complex compound and organic electroluminescence device using the same)

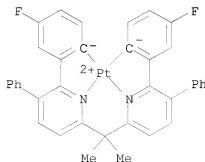
RN 1160958-76-8 CAPLUS

Platinum, [(1-methylethylidene)bis[(5-phenyl-6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)

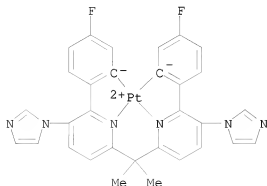


RN 1160958-78-0 CAPLUS

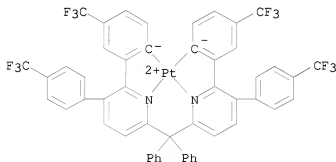
Platinum, [(1-methylethylidene)bis[(5-phenyl-6,2-pyridinediyl-κN)(4-fluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 1160958-80-4 CAPLUS

CN Platinum, [(1-methylethylidene)bis[[5-(1H-imidazol-1-yl)-6,2-pyridinediyl- κ N](5-fluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

RN 1160958-81-5 CAPLUS

CN Platinum, [(diphenylmethylene)bis[[5-[4-(trifluoromethyl)phenyl]-6,2-pyridinediyl- κ N][4-(trifluoromethyl)-2,1-phenylene- κ C]]]-, (SP-4-2)- (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 49 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:455239 CAPLUS

DOCUMENT NUMBER: 150:460455

TITLE: Organic field emission element with improved durability and efficiency containing platinum complex and silane derivative

INVENTOR(S): Fukuzaki, Riji; Igarashi, Tatsuya

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 92pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009081409	A	20090416	JP 2008-46317	20080227

10/578,039

PRIORITY APPLN. INFO.:

JP 2007-119534

A 20070427

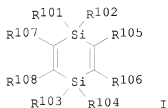
JP 2007-229024

A 20070904

OTHER SOURCE(S):

MARPAT 150:460455

GI



AB Disclosed is an organic field emission element such as an organic EL element containing between a pair of electrodes a silane derivative represented by I (R101-108 = H, substituent) and a Pt complex having a tetradentate ligand.

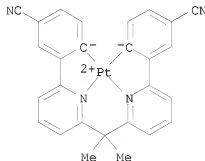
IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(Organic field emission element with improved durability and efficiency containing platinum complex and silane derivative)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 50 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:138827 CAPLUS

DOCUMENT NUMBER: 150:202540

TITLE: Organic electroluminescent devices with graded concentrations of electron-transporting light-emitting materials in hole-transporting hosts

INVENTOR(S): Kinoshita, Masaru; Tobise, Manabu

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCI Int. Appl., 75pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

WO 2009017210 A1 20090205 WO 2008-JP63813 20080725
 W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
 FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG,
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
 PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM,
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 JP 2009032977 A 20090212 JP 2007-196527 20070727
 EP 2174363 A1 20100414 EP 2008-792026 20080725
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
 IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI,
 SK, TR, AL, BA, MK, RS
 KR 2010066445 A 20100617 KR 2010-7003960 20080725
 CN 101836308 A 20100915 CN 2008-80100671 20080725
 US 20100193776 A1 20100805 US 2010-670799 20100126
 PRIORITY APPLN. INFO.: JP 2007-196527 A 20070727
 WO 2008-JP63813 W 20080725

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

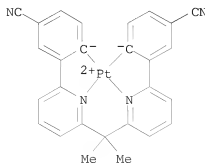
OTHER SOURCE(S): MARPAT 150:202540

AB Organic electroluminescent device comprising an anode, a cathode disposed facing the anode, and an organic layer that is sandwiched between the anode and the cathode and that includes at least a light-emitting layer are described in which the light-emitting layer comprises an electron-transporting light-emitting material, a hole-transporting host material, and an elec. inert material, and the concentration of the electron-transporting light-emitting material gradually decreases from a cathode side toward an anode side. Preferably, the concentration of the elec. inert material also gradually decreases from the cathode side toward the anode side.

IT 881887-26-9
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent devices with graded concns. of electron-transporting light-emitting materials in hole-transporting hosts)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 51 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:116715 CAPLUS
 DOCUMENT NUMBER: 150:155944
 TITLE: Organic electroluminescent elements with high light-emission efficiency and excellent durability employing multiple light-emitting materials having different electron affinities and gradially changing compositions
 INVENTOR(S): Satou, Tasuku; Kinoshita, Masaru; Tobise, Manabu
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 28 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090026936	A1	20090129	US 2008-177951	20080723
US 7847479	B2	20101207		
JP 2009055010	A	20090312	JP 2008-188629	20080722

PRIORITY APPLN. INFO.: JP 2007-196677 A 20070727

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Organic electroluminescence elements are described which comprise a light-emitting layer between a pair of electrodes, where the light-emitting layer contains at least two light-emitting materials having different E_a values and at least one host material, a concentration of a light-emitting material having a larger E_a value in the light-emitting layer gradually decreases from a cathode side toward an anode side, and a concentration of a light-emitting material having a smaller E_a value in the light-emitting layer gradually decreases from the anode side toward the cathode side.

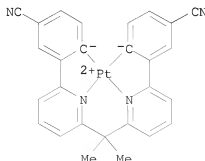
IT 881887-26-9

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(light-emitting layer containing; organic electroluminescent elements employing multiple light-emitting materials having different electron affinities)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ Cl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 52 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:85882 CAPLUS
 DOCUMENT NUMBER: 150:179579
 TITLE: Organic electroluminescent device
 INVENTOR(S): Okada, Hisashi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 97pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

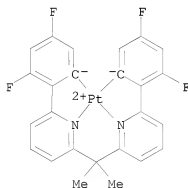
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009016184	A	20090122	JP 2007-176762	20070704
PRIORITY APPLN. INFO.:			JP 2007-176762	20070704

AB The invention refers to an organic electroluminescent device comprising two or more luminescent units between two electrodes, wherein the intermediate connecting layer between the luminescent units, and each of the luminescent units have organic layers which contain a luminescent layer, and the light from the luminescent units combine to create white light.

IT 864541-08-2 881887-26-9 930778-68-0
 1104389-25-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent device)

RN 864541-08-2 CAPLUS

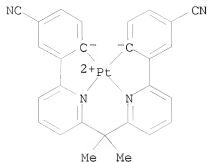
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

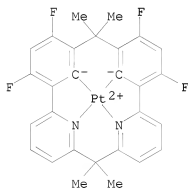
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)

10/578,039



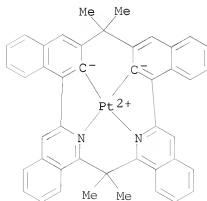
RN 930778-68-0 CAPLUS

CN Platinum, (3,5,9,11-tetrafluoro-7,7,18,18-tetramethyl-23,24-diazapentacyclo[17.3.1.12,6.18,12.113,17]hexacos-1(23),2,4,6(26),8,10,12(25),13,15,17(24),19,21-dodecaene-25,26-diyl-κC25,κC26,κN23,κN24)-, (SP-4-2)- (CA INDEX NAME)



RN 1104389-25-4 CAPLUS

CN Platinum, (14,14,29,29-tetramethyl-14H,29H-7,13:15,21-dimetheno-6,30:22,28-dinitrilotetrabenzo[a,f,k,p]cyclodocosene-33,34-diyl-κC33,κC34,κN31,κN32)-, (SP-4-2)- (CA INDEX NAME)



ACCESSION NUMBER: 2008:1280630 CAPLUS
 DOCUMENT NUMBER: 149:502651
 TITLE: Organic electroluminescent display device and
 patterning method
 INVENTOR(S): Matsunaga, Atsushi; Nakayama, Masaya; Tanaka, Atsushi
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: PCT Int. Appl., 43pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008126883	A1	20081023	WO 2008-JP57053	20080403
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2008276211	A	20081113	JP 2008-94273	20080331
KR 2009128535	A	20091215	KR 2009-7023094	20080403
EP 2135288	A1	20091223	EP 2008-740154	20080403
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR			
CN 101641794	A	20100203	CN 2008-80009705	20090924
US 20100073268	A1	20100325	US 2009-594541	20091002
PRIORITY APPLN. INFO.:			JP 2007-99516	A 20070405
			WO 2008-JP57053	W 20080403

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

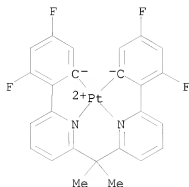
AB An organic electroluminescent display device includes a driving TFT and pixels which are formed by organic electroluminescent elements and provided in a pattern on a substrate of the TFT. The driving TFT includes at least a substrate, a gate electrode, a gate insulating film, an active layer, a source electrode, and a drain electrode; the driving TFT further includes a resistive layer between the active layer and at least one of the source electrode and the drain electrode; and the pixels are formed in a pattern by a laser transfer method. A patterning method by a laser transfer method for producing the fine pixels is also provided.

IT 864541-08-2

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent display device and patterning method)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 54 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2008:1188420 CAPLUS
 DOCUMENT NUMBER: 149:435443
 TITLE: Organic electroluminescence element
 INVENTOR(S): Satou, Tasuku; Fukunaga, Hirofumi; Tobise, Manabu
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 38 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080241518	A1	20081002	US 2008-54147	20080324
JP 2008270729	A	20081106	JP 2008-26984	20080206
PRIORITY APPLN. INFO.:			JP 2007-80253	A 20070326
			JP 2008-26984	A 20080206

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 149:435443

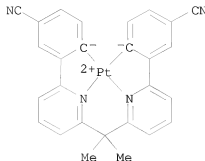
AB Organic electroluminescent element comprising at least one organic layer including a light-emitting layer between a pair of electrodes are described in which the element includes an electron transport layer containing a phosphine oxide compound and an electron transport layer that does not contain the phosphine oxide compound between the light-emitting layer and a cathode, the electron transport layer containing the phosphine oxide compound being nearer to the cathode while the electron transport layer that does not substantially contain the phosphine oxide compound is nearer to the light-emitting layer.

IT 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent devices with phosphine oxide compound-containing and phosphine oxide-compound free dual electron transport layers)

RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L8 ANSWER 55 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:1185550 CAPLUS

DOCUMENT NUMBER: 149:435442

TITLE: Organic electroluminescent devices with layers including deuterated carbazole derivatives and platinum complexes

INVENTOR(S): Takeda, Akira

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

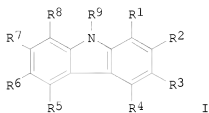
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008117889	A1	20081002	WO 2008-JP56532	20080326
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR			
JP 2009231516	A	20091008	JP 2008-74730	20080321
EP 2129739	A1	20091209	EP 2008-739643	20080326
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR			
KR 2010014603	A	20100210	KR 2009-7020119	20080326
US 20100084967	A1	20100408	US 2009-532641	20090923
CN 101646745	A	20100210	CN 2008-80010315	20090928
PRIORITY APPLN. INFO.:			JP 2007-85961	A 20070328
			JP 2008-48511	T0 20080228
			WO 2008-JP56532	W 20080326

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 149:435442; MARPAT 149:435442

GI



AB Organic electroluminescent devices comprising a pair of electrodes; and at least one organic layer between the pair of electrodes, the at least one organic

layer including a light-emitting layer are described in which the organic layer(s) contain a compound are described by the general formula I (R1-8 = independently selected H or a substituent, and contiguous groups of R1-8 may be bonded to each other to form a condensed ring; R9 = alkyl, alkenyl, aryl, heteroaryl, or silyl, and each group may be substituted with substituent; and ≥ 1 R1-9 = deuterium or a substituent containing deuterium) and the light-emitting layer contains a phosphorescent platinum complex having a tetradentate ligand.

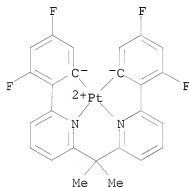
IT 864541-08-2 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(organic electroluminescent devices with layers including deuterated carbazole derivs. and platinum complexes)

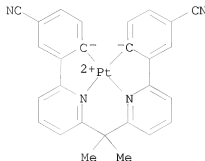
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

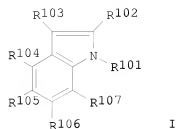
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(4-cyano-2,1-phenylene- κ C1)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 56 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:674480 CAPLUS
DOCUMENT NUMBER: 149:41393
TITLE: Organic electroluminescent device containing
indole-based light-emitting layer
INVENTOR(S): Igarashi, Tatsuya; Yagi, Kazunari
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
SOURCE: PCT Int. Appl., 101pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008066192	A1	20080605	WO 2007-JP73274	20071127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2008160087	A	20080710	JP 2007-303467	20071122
EP 2102308	A1	20090923	EP 2007-849977	20071127
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR				
US 20100026174	A1	20100204	US 2009-516259	20090526
PRIORITY APPLN. INFO.:			JP 2006-318771	A 20061127
			WO 2007-JP73274	W 20071127
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):	MARPAT	149:41393		
GI				

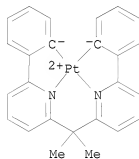


AB An organic electroluminescent device is described comprising a pair of electrodes; and at least one organic layer between the pair of electrodes, the at least one organic layer including a light-emitting layer, wherein the at least one organic layer includes at least one layer containing an indole derivative represented by general formula I, and the light-emitting layer includes a platinum complex phosphorescent material having a tetradentate ligand, wherein R101-R107 each independently represents a hydrogen atom or a substituent, provided that R102-R103 are not bonded to each other to form an aromatic condensed ring.

IT 808111-97-9 864541-08-2 881887-26-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (light emitting layer; organic electroluminescent device containing
 indole-based light-emitting enhancer)

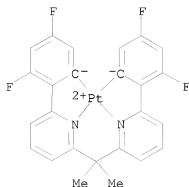
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



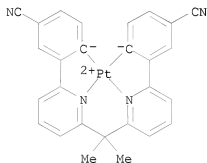
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 57 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:673873 CAPLUS

DOCUMENT NUMBER: 149:66137

TITLE: Organic electroluminescent device and indole derivative

INVENTOR(S): Igarashi, Tatsuya; Yagi, Kazunari

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan

SOURCE: PCT Int. Appl., 54pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008066195	A1	20080605	WO 2007-JP73278	20071127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG,				

MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
 RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,
 TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

JP 2009076835 A 20090409 JP 2007-303466 20071122

EP 2094810 A1 20090902 EP 2007-849981 20071127

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,

IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR

US 20100066243 A1 20100318 US 2009-516495 20090527

PRIORITY APPLN. INFO.: JP 2006-318773 A 20061127

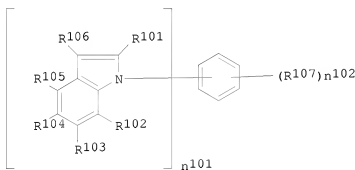
JP 2007-221520 A 20070828

WO 2007-JP73278 W 20071127

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 149:66137

GI



I

AB An organic electroluminescent device is described comprising a pair of electrodes; and at least one organic layer between the pair of electrodes, the at least one organic layer including a light-emitting layer containing a light-emitting material, wherein the at least one organic layer includes at least one layer containing an indole derivative represented by the general formula

I wherein R102, R103, R104, R105 and R106 each independently represents a hydrogen atom or a substituent; R101 represents a substituent linking via a carbon atom; R101 and R106 may be bonded to each other to form a ring; R107 represents a substituent; n101 represents 1 or 2; and n102 represents an integer of from 0 to 5, provided that $n101 + n102 \leq 6$.

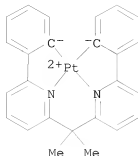
IT 808111-97-9 864541-08-2 881887-26-9

RL: TEM (Technical or engineered material use); USES (Uses)

(phosphorescent material; organic electroluminescent device having indole derivative organic layer)

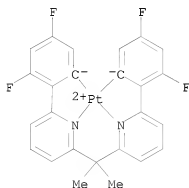
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



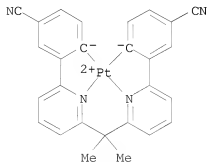
RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



RN 881887-26-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κC1)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 58 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:550939 CAPLUS

DOCUMENT NUMBER: 148:506352

TITLE: Organic electroluminescent (EL) elements with excellent durability and efficiency and white-emitting EL devices using them

INVENTOR(S): Igarashi, Tatsuya

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 70pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008108617	A	20080508	JP 2006-291334	20061026
PRIORITY APPLN. INFO.:			JP 2006-291334	20061026

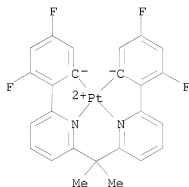
OTHER SOURCE(S): MARPAT 148:506352

AB The elements have EL layers (A) containing metal complex hosts and phosphors with condensed aromatic ligands and EL layers (B) containing phosphors of Pt complexes with tetradentate ligands.

IT 864541-08-2
RL: TEM (Technical or engineered material use); USES (Uses)
(phosphor; white-emitting EL devices containing 2 emission layers with good durability and efficiency)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-*N,N*)(3,5-difluoro-2,1-phenylene-*K,C*)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 59 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:549305 CAPLUS

DOCUMENT NUMBER: 148:549261

TITLE: Organic electroluminescent devices containing prescribed carbazole compounds and tetradentate phosphorescent complexes

INVENTOR(S): Takeda, Rei

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 35pp.
CODEN: JKXXAF

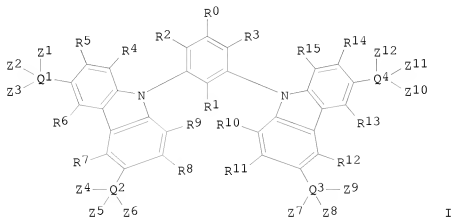
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008109103	A	20080508	JP 2007-239609	20070914
PRIORITY APPLN. INFO.:			JP 2006-263415	A 20060927
OTHER SOURCE(S):	MARPAT	148:549261		
GI				



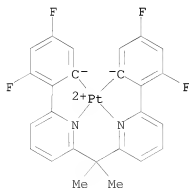
AB The devices, showing improved luminescent efficiency and long service life, have emitting layers containing carbazole derivs. I [Q1-Q4 = C, Si; R0 = H, alkyl, aryl, C-connected heteroaryl; R1 = H; R2-R15 = H, substituent; Z1-Z12 = alkyl, (hetero)aryl] and tetradentate ligand-equipped phosphorescent complexes.

IT 864541-08-2

RL: TEM (Technical or engineered material use); USES (Uses)
(emitting layers; organic electroluminescent devices containing prescribed
carbazole compds. and tetradentate phosphorescent complexes)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L8 ANSWER 60 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:419446 CAPLUS

DOCUMENT NUMBER: 148:437513
 TITLE: Organic electroluminescent element
 INVENTOR(S): Satou, Tasuku
 PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 26pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080079358	A1	20080403	US 2007-902459	20070921
JP 2008109085	A	20080508	JP 2007-197716	20070730
PRIORITY APPLN. INFO.:			JP 2006-269485	A 20060929
			JP 2007-197716	A 20070730

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

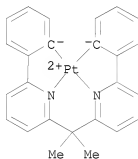
AB An organic electroluminescent element includes at least one organic layer including a light-emitting layer between a pair of electrodes, wherein the light-emitting layer includes a metal complex having a tri-dentate or higher multi-dentate ligand, and a metal-free compound capable of giving a three or higher coordination with the same metal element as a central metal of the metal complex is provided. An organic electroluminescent element having a high light emitting efficiency and excellent durability is provided.

IT 808111-97-9

RL: TEM (Technical or engineered material use); USES (Uses)
 (metal complex; organic electroluminescent element containing)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 61 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:1421312 CAPLUS
 DOCUMENT NUMBER: 148:65687
 TITLE: Organic electroluminescent device
 INVENTOR(S): Murakami, Takeshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 35pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007324309	A	20071213	JP 2006-151705	20060531

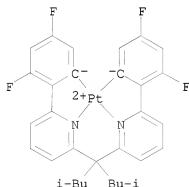
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 148:65687

AB The invention relates to an organic electroluminescent device, comprising a tetradentate ligand-containing metal complex in which, at least, one linking group connecting between coordinating groups to the center metal, contains a specific alkyl group in order to prevent the mol. association that may reduce the luminescent efficiency.

IT 959838-95-0 959838-96-1 959838-97-2
RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)

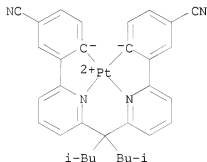
RN 959838-95-0 CAPLUS

CN Platinum, [[3-methyl-1-(2-methylpropyl)butylidene]bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



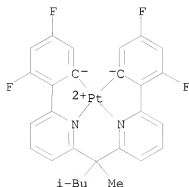
RN 959838-96-1 CAPLUS

CN Platinum, [[3-methyl-1-(2-methylpropyl)butylidene]bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



RN 959838-97-2 CAPLUS

CN Platinum, [[1,3-dimethylbutylidene]bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 62 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:435308 CAPLUS

DOCUMENT NUMBER: 146:431504

TITLE: Organic field emission element made from multidentate metal complex

INVENTOR(S): Kitamura, Yoshitaka

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 149pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007103493	A	20070419	JP 2005-288903	20050930
PRIORITY APPLN. INFO.:			JP 2005-288903	20050930

AB Disclosed is an organic field emission element comprising ≥ 2 light emitting units disposed between a pair of electrodes and intermediate contact layers disposed between the light emitting units, wherein ≥ 2 light emitting units have independently an organic compound layer including a light emitting layer and containing a metal complex with tri- or higher-dentate.

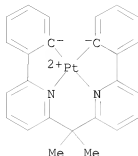
IT 808111-97-9

RL: TEM (Technical or engineered material use); USES (Uses)

(Organic field emission element made from multidentate metal complex)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L8 ANSWER 63 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:385414 CAPLUS
DOCUMENT NUMBER: 146:368522
TITLE: Organic electroluminescent element
INVENTOR(S): Sano, Satoshi; Igarashi, Tatsuya
PATENT ASSIGNEE(S): Fujifilm Corporation, Japan
SOURCE: U.S. Pat. Appl. Publ., 22pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070077453	A1	20070405	US 2006-542550	20061004
JP 2007129206	A	20070524	JP 2006-271604	20061003
			JP 2005-291145	A 20051004

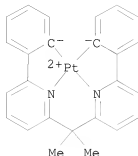
PRIORITY APPLN. INFO.:
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 146:368522

AB Organic electroluminescent elements are described which comprise a pair of electrodes; and at least one organic layer comprising a light-emitting layer between the pair of electrodes, where the at least one organic layer comprises at least one of compds. represented by formula (R1)m-(Al)n, where R1 represents a substituent; m represents an integer of 2 or more; n represents an integer of 1 or more; and Al represents a group selected from the group consisting of specific compds., with the proviso that when m or n is 2 or more, a plurality of R1's or Al's may be the same or different.

IT 808111-97-9
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent elements using)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 64 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:383084 CAPLUS

DOCUMENT NUMBER: 146:390149

TITLE: Organic electroluminescent devices employing a polymer comprising a metal complex containing a tri- or higher-dentate ligand

INVENTOR(S): Okada, Hisashi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 126pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070075311	A1	20070405	US 2006-529595	20060929
JP 2007123862	A	20070517	JP 2006-263431	20060927
			JP 2005-288831	A 20050930

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 146:390149

AB Organic electroluminescent devices are described which comprise an organic compound layer provided between a pair of electrodes, which comprises a polymer comprising a metal complex containing a tri- or higher-dentate ligand in the polymer mol. At least one of the ligands is preferably a chain. The metal complex preferably contains a transition metal ion or a rare earth metal ion. The metal complex preferably contains a nitrogen atom in its complex structure. Further, the polymer preferably contains the metal complex in its main chain or its side chain. Thus, green-emitting devices employing platinum organometallic polymers as luminescent materials were demonstrated and characterized.

IT 932397-76-7 932397-77-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(luminescent layer; organic electroluminescent devices employing polymer comprising metal complex containing tri- or higher-dentate ligand)

RN 932397-76-7 CAPLUS

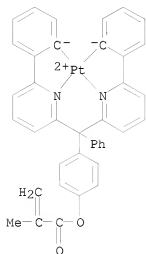
CN Platinum, [[[4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]phenylmethylene]bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC1]]-, (SP-4-2)-, homopolymer (CA INDEX NAME)

CM 1

CRN 932397-75-6

10/578,039

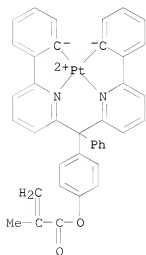
CMF C39 H28 N2 O2 Pt
CCI CCS



RN 932397-77-8 CAPLUS
CN Platinum, [[4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]phenylmethylene]bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC1]]-, (SP-4-2)-, polymer with 9-ethenyl-9H-carbazole (CA INDEX NAME)

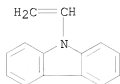
CM 1

CRN 932397-75-6
CMF C39 H28 N2 O2 Pt
CCI CCS



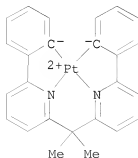
CM 2

CRN 1484-13-5
CMF C14 H11 N



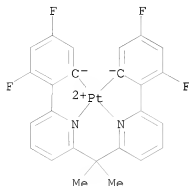
L8 ANSWER 65 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:380659 CAPLUS
DOCUMENT NUMBER: 146:390910
TITLE: Organic electroluminescent device and method for finely patterning it by laser ablation
INVENTOR(S): Kitamura, Yoshitaka
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 144pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007087667	A	20070405	JP 2005-272811	20050920
PRIORITY APPLN. INFO.:			JP 2005-272811	20050920
OTHER SOURCE(S):	MARPAT 146:390910			
AB	The device (for display) has, between a pair of electrodes, ≥1 of light-emitting layers containing metal complexes bearing ≥3-dentate ligands and is patterned by laser ablation.			
IT	808111-97-9 864541-08-2 RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses) (dopants, light-emitting layers; method for finely patterning organic electroluminescent device by laser ablation)			
RN	808111-97-9 CAPLUS			
CN	Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)			



RN 864541-08-2 CAPLUS
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-

difluoro-2,1-phenylene-κC)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 66 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:356751 CAPLUS

DOCUMENT NUMBER: 146:390112

TITLE: Organic electroluminescent devices with high emission efficiency and excellent durability and their manufacture by liquid-phase method

INVENTOR(S): Yamazaki, Kazuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 143pp.

CODEN: JKXXAF

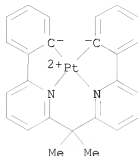
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

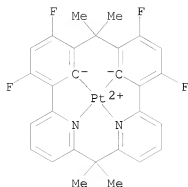
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2007080677	A	20070329	JP 2005-267249	20050914
PRIORITY APPLN. INFO.:				JP 2005-267249	20050914
OTHER SOURCE(S):	MARPAT 146:390112				
AB	The devices have light-emitting layers manufactured by liquid-phase method (coating or printing method, preferably) using ≥1 metal complexes with ≥3-dentate ligands.				
IT	808111-97-9				
	RL: TEM (Technical or engineered material use); USES (Uses) (light-emitting layer; manufacture of organic EL devices with high emission efficiency and durability by coating or printing method using multidentate ligand-metal complexes)				
RN	808111-97-9 CAPLUS				
CN	Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]], (SP-4-2)- (CA INDEX NAME)				



L8 ANSWER 67 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:356713 CAPLUS
 DOCUMENT NUMBER: 146:390111
 TITLE: Organic electroluminescent device
 INVENTOR(S): Hasegawa, Kazuhiro
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 144pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007080593	A	20070329	JP 2005-264374	20050912
PRIORITY APPLN. INFO.:			JP 2005-264374	20050912
AB	The invention refers to an organic electroluminescent device comprising an at least one luminescent layer between two electrodes, and a resonator for resonating the light emitted from the luminescent layer, and the luminescent layer contains, as luminescent material, a metal complex having tri- or higher dentate ligands.			
IT	930778-68-0 RL: TEM (Technical or engineered material use); USES (Uses) (organic electroluminescent device)			
RN	930778-68-0 CAPLUS			
CN	Platinum, (3,5,9,11-tetrafluoro-7,7,18,18-tetramethyl-23,24-diazapentacyclo[17.3.1.12,6.18,12.113,17]hexacos-1(23),2,4,6(26),8,10,12(25),13,15,17(24),19,21-dodecaene-25,26-diyl-kC25,kC26,kN23,kN24)-, (SP-4-2)- (CA INDEX NAME)			



L8 ANSWER 68 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:286937 CAPLUS

DOCUMENT NUMBER: 146:347119

TITLE: Organic electroluminescent device and complex compound

INVENTOR(S): Takeda, Akira; Igarashi, Tatsuya

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 24pp.

CODEN: USXXCO

DOCUMENT TYPE:

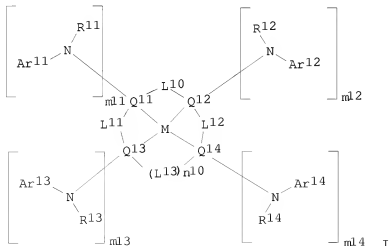
LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: English

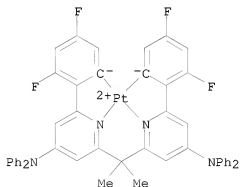
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070059552	A1	20070315	US 2006-518355	20060911
JP 2007073891	A	20070322	JP 2005-262305	20050909
PRIORITY APPLN. INFO.:			JP 2005-262305	A 20050909
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):		MARPAT 146:347119		

GI



- AB An organic electroluminescent device is described comprising a pair of electrodes; and at least one organic layer between the pair of electrode, the at least one organic layer including a light-emitting layer, wherein the at least one organic layer contains at least one compound represented by the general formula I (where M = a metal ion; Q11, Q12, Q13, Q14 = (independently) atom group coordinating with M; L10, L11, L12, L13 = (independently) a single bond, a double bond or a linking group; lines between the M and each of Q1 group represent one of a covalent bond, an ionic bond, and a coordinate bond; n10 = 0, 1, and when n10=0, Q13 and Q14 do not bond to each other; mli (i = 1,2,3,4) (independently) = integer of 0 or more, and at least one of mli is 1 or more; Arli = (independently) an aryl group or a heteroaryl group; and Rli = (independently) hydrogen atom or a substituent group).
- IT 929034-41-3P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organic electroluminescent device having platinum complex as phosphorescent layer)
- RN 929034-41-3 CAPLUS
- CN Platinum, [(1-methylethylidene)bis[[4-(diphenylamino)-6,2-pyridinediyl- κ N](3,5-difluoro-2,1-phenylene- κ Cl)]]-], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 69 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:286933 CAPLUS

DOCUMENT NUMBER: 146:325836

TITLE: Composition for organic electroluminescent element, method for manufacturing organic electroluminescent element, and organic electroluminescent element
Yamazaki, Kazuki

INVENTOR(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 126pp.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070059551	A1	20070315	US 2006-518303	20060911

JP 2007110067 A 20070426 JP 2006-47240 20060223
 PRIORITY APPLN. INFO.: JP 2005-267556 A 20050914
 JP 2005-267557 A 20050914
 JP 2006-47240 A 20060223

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 146:325836

AB A composition for an organic electroluminescent element used for forming a pattern

by an ink jet method is described comprising at least one metal complex having a tridentate or higher-dentate ligand. A method of fabricating an organic electroluminescent element including forming an organic compound layer

by discharging the composition for an organic electroluminescent element in a pattern

with an ink jet apparatus, is also described entailing using a transfer material having an organic compound layer containing a metal complex having a tridentate or higher-dentate ligand, and organic electroluminescent elements manufactured by these methods.

IT 808111-97-9

RL: TEM (Technical or engineered material use); USES (Uses)

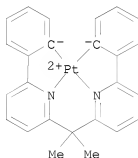
(composition for organic electroluminescent element for forming pattern by

ink

jet method)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 70 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:172434 CAPLUS

DOCUMENT NUMBER: 146:238960

TITLE: Organic electroluminescent device with high emission efficiency, good drive durability, and low-voltage drive property

INVENTOR(S): Okada, Hisashi; Nishida, Nobuhiro

PATENT ASSIGNEE(S): Fujifilm Holdings Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 44pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

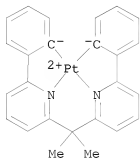
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007042875	A	20070215	JP 2005-225568	20050803

PRIORITY APPLN. INFO.:

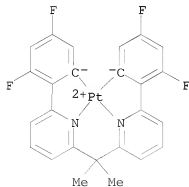
JP 2005-225568

20050803

- AB The organic EL device contains, between a pair of electrode, a hole-transporting layer containing ≥ 1 kinds of hole-transporting materials, a light-emitting layer containing ≥ 1 kinds of light-emitting dopants and a plurality of host compds., an electron-transporting layer containing ≥ 1 kinds of electron-transporting substances, wherein among the host compds., ≥ 1 kinds comprise hole-transporting host compds. and ≥ 1 kinds of electron-transporting host compds., between the hole-transporting layer and the light-emitting layer is provided a hole-transporting intermediate layer consisting of the same substance as that of the hole-transporting host compds., and/or between the electron-transporting layer is provided an electron-transporting intermediate layer consisting of the same substance as that of the electron-transporting host compds.
- IT 808111-97-9 864541-08-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (light-emitting dopant; organic EL device with high emission efficiency, good drive durability, and low-voltage drive property)
- RN 808111-97-9 CAPLUS
- CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



- RN 864541-08-2 CAPLUS
- CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

ACCESSION NUMBER: 2007:63444 CAPLUS
 DOCUMENT NUMBER: 146:151494
 TITLE: Organic electroluminescent device
 INVENTOR(S): Nariyuki, Fumito
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: U.S. Pat. Appl. Publ., 23pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070015004	A1	20070118	US 2006-444422	20060601
JP 2007019471	A	20070125	JP 2006-132548	20060511
			JP 2005-166817	A 20050607

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 146:151494

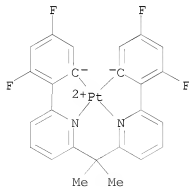
AB The invention provides an organic electroluminescent device having at least a light-emitting layer containing a light-emitting material and a host material, a hole injection-promoting layer, and a hole-transporting layer containing a hole-transporting material in this order between a pair of electrodes, in which the hole injection-promoting layer contains a hole-transporting material and has a thickness of 0.1 nm to 0.3 nm, and the relation $I_{p1} < I_{p2} < I_{p3}$ is satisfied, where I_{p1} is defined as the ionization potential of the hole-transporting material of the hole-transporting layer, I_{p2} is defined as the ionization potential of the hole-transporting material of the hole injection-promoting layer, and I_{p3} is defined as the ionization potential of the host material. Accordingly, the invention provides an electroluminescent device excellent in both light emitting efficiency and operation durability.

IT 864541-08-2

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (light-emitting layer guest; organic electroluminescent device)

RN 864541-08-2 CAPLUS

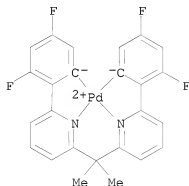
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



TITLE: Organic electroluminescent devices
 INVENTOR(S): Kinoshita, Ikuo; Igarashi, Tatsuya; Murakami, Takeshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

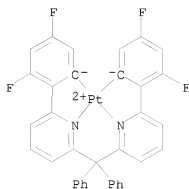
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006332620	A	20061207	JP 2006-119523	20060424
US 20060286406	A1	20061221	US 2006-410000	20060425
US 7758971	B2	20100720		

PRIORITY APPLN. INFO.: JP 2005-126734 A 20050425
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 146:53463
 AB The devices contain layers containing the metal complexes with
 ≥ 3 -coordinated ligands between light-emitting layers and cathodes.
 The devices have improved light emission efficiency.
 IT 913699-15-7 913699-16-8 916427-56-0
 916427-57-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic electroluminescent devices containing metal complexes with ligands)
 RN 913699-15-7 CAPLUS
 CN Palladium, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

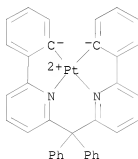


RN 913699-16-8 CAPLUS
 CN Platinum, [(diphenylmethylene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

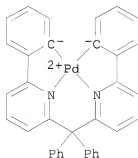
10/578,039



RN 916427-56-0 CAPLUS
CN Platinum, [(diphenylmethylene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC1]]-, (SP-4-2)- (CA INDEX NAME)



RN 916427-57-1 CAPLUS
CN Palladium, [(diphenylmethylene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC1]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L8 ANSWER 73 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:1147252 CAPLUS

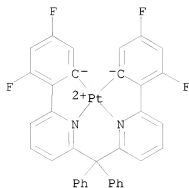
DOCUMENT NUMBER: 145:480097

TITLE: Organic electroluminescent devices employing a metal complex having a multidentate ligand as a host

INVENTOR(S): material
 Igarashi, Tatsuya; Murakami, Takeshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 68pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

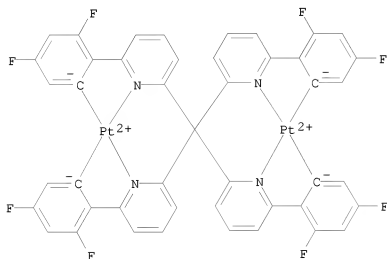
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006115299	A1	20061102	WO 2006-JP309137	20060425
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006332622	A	20061207	JP 2006-119568	20060424
EP 1874893	A1	20080109	EP 2006-745987	20060425
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
US 20090039768	A1	20090212	US 2007-912470	20071024
PRIORITY APPLN. INFO.:			JP 2005-126733	A 20050425
			WO 2006-JP309137	W 20060425
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 145:480097				
AB	Organic electroluminescent devices are described which comprise a pair of electrodes; and at least one organic compound layer including a light emitting layer between the pair of electrodes, where the light emitting layer contains a host material and a light emitting material, and where the host material contains a metal complex having a tridentate or more ligand.			
IT	913699-16-8 913699-17-9 RL: DEV (Device component use); PRP (Properties); USES (Uses) (organic electroluminescent devices employing metal complex having multidentate ligand as host material)			
RN	913699-16-8 CAPLUS			
CN	Platinum, [(diphenylmethylene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)			

10/578,039



RN 913699-17-9 CAPLUS

CN Platinum, bis[μ -{[(2,2'-bipyridine)-6,6'-diyl- κ N1: κ N1']bis(3,5-difluoro-2,1-phenylene- κ C)]}di- (9CI)
(CA INDEX NAME)

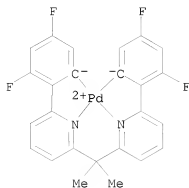


IT 913699-15-7P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(organic electroluminescent devices employing metal complex having multidentate ligand as host material)

RN 913699-15-7 CAPLUS

CN Palladium, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)

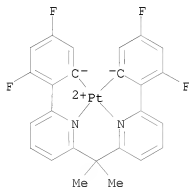


IT 864541-08-2

RL: RCT (Reactant); RACT (Reactant or reagent)
 (organic electroluminescent devices employing metal complex having
 multidentate ligand prepared using)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-
 difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 74 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:706549 CAPLUS

DOCUMENT NUMBER: 145:155758

TITLE: Organic electroluminescent devices having metal
 complexes and host materials in emitter layers
 INVENTOR(S): Tsukahara, Jiro; Ise, Toshihiro; Uchida, Osamu;
 Nakamura, Akio

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

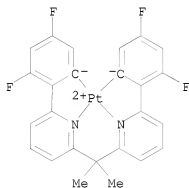
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2006190718 A 20060720 JP 2004-382034 20041228
 PRIORITY APPLN. INFO.: JP 2004-382034 20041228
 OTHER SOURCE(S): MARPAT 145:155758
 AB The devices have planar 4-coordinate metal complexes and host materials composed of nuclear components and ligands chosen from N-containing heterocyclic groups, cyano groups, and isocyano groups for coordination with the metal complexes in emitter layers between pairs of electrodes. The devices emit light with maximum wavelength ≤ 500 nm.
 IT 864541-08-2
 RL: DEV (Device component use); USES (Uses)
 (organic electroluminescent devices having metal complexes and host materials in emitter layers)
 RN 864541-08-2 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L8 ANSWER 75 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2006:604017 CAPLUS
 DOCUMENT NUMBER: 145:73027
 TITLE: Organic electroluminescent device
 INVENTOR(S): Okada, Hisashi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 164 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006165526	A	20060622	JP 2005-325122	20051109
US 20060222887	A1	20061005	US 2005-269816	20051109
US 7754346	B2	20100713		

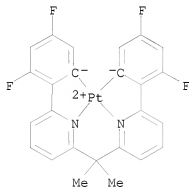
PRIORITY APPLN. INFO.: JP 2004-326225 A 20041110

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 145:73027

AB The invention relates to an organic electroluminescent device, providing a low voltage operation, enhanced luminescent characteristics, and good durability, comprising an organic layer, including an active layer, formed between a pair of electrodes, wherein the active layer comprises a

phosphorescent metal complex with a tri- or higher dentate ligand doped in
 ≥ 2 host compds.
 IT 864541-08-2
 RL: DEV (Device component use); MOA (Modifier or additive use); USES
 (Uses)
 (organic electroluminescent device)
 RN 864541-08-2 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-
 difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



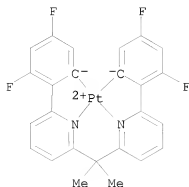
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L8 ANSWER 76 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2006:603049 CAPLUS
 DOCUMENT NUMBER: 145:73023
 TITLE: Organic electroluminescence device and production
 method
 INVENTOR(S): Yamazaki, Kazuki
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 161 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006164948	A	20060622	JP 2005-268950	20050915
PRIORITY APPLN. INFO.:			JP 2004-329415	A 20041112
OTHER SOURCE(S):	MARPAT 145:73023			

AB The invention refers to an organic electroluminescence device comprising an organic layer between two electrodes, wherein the organic layer is formed by vapor deposition of a metal complex with a tri- or higher dentate ligand, and the vapor deposition process is repeated at least twice without switching the metal complex.

IT 864541-08-2
 RL: DEV (Device component use); USES (Uses)
 (organic electroluminescence device and production method)
 RN 864541-08-2 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-
 difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 77 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:516257 CAPLUS

DOCUMENT NUMBER: 145:36978

TITLE: Organic electroluminescent devices containing metal complexes having more than tridentate ligands

INVENTOR(S): Ogasawara, Atsushi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 152 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

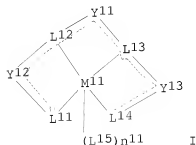
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006140219	A	20060601	JP 2004-326658	20041110
US 20060141285	A1	20060629	US 2005-269698	20051109
PRIORITY APPLN. INFO.:			JP 2004-326658	A 20041110
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE			IN LSUS DISPLAY FORMAT	
OTHER SOURCE(S):		MARPAT 145:36978		

GI



AB The devices have organic layers including emitting layers and contain metal complexes having ≥ 3 -dentate ligands and SiR11R12R13R14 [R11-R14 = H, substituent, including (hetero)aryl group] in one or more of the organic layers. The complexes may be represented by I [M11 = metal; L11-L15 = ligand; Y11-Y13 = bridging group, single bond, double bond; n11 = 0-4]. The devices exhibit high luminance and longer half life of the same.

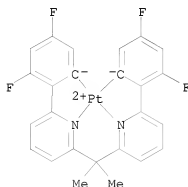
IT 864541-08-2

RL: DEV (Device component use); USES (Uses)

(organic electroluminescent devices containing metal complexes having more-than-tridentate ligands and substituted silane compds.)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 78 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:516156 CAPLUS

DOCUMENT NUMBER: 145:17464

TITLE: Vapor phase deposition of organic layers of organic EL device, organic EL device containing the layers, and manufacture of the organic EL device

INVENTOR(S): Yamazaki, Kazuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 149 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

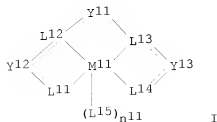
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006140059	A	20060601	JP 2004-329416	20041112
PRIORITY APPLN. INFO.:			JP 2004-329416	20041112
OTHER SOURCE(S):		MARPAT 145:17464		

GI



I

AB In the preparation of organic layers of organic EL device containing ≥ 1 organic

layers between a pair of electrodes, the process involves (i) degassing of evaporative materials containing ≥ 1 metal complexes with ≥ 3 ligands and (ii) heating of the evaporative materials and their deposition. Preferably, the metal complexes are represented by the general formula I (M11 = metal ion, preferably ion of Pt, Ir, Re, Pd, Rh, Ru, or Cu; L11-L15 = ligands which coordinate with M11; no more atom. groups exist in L11-L14 to form cyclic ligands; L15 will not bond with L11 and L14 both to form cyclic ligand; Y11-Y13 = linking group, single bond, double bond; when Y11, Y12, or Y13 are linking group, L11 and Y12, Y12 and L12, L12 and Y11, Y11 and L13, L13 and Y13, and Y13 and L14 show single bond or double bond independently; n11 = 0-4).

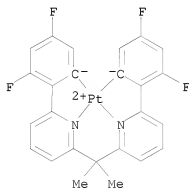
IT 864541-08-2

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(degassing and vapor phase deposition of metal complexes for preparation of organic layers of EL device)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L8 ANSWER 79 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:469966 CAPLUS

DOCUMENT NUMBER: 144:477361

TITLE: Organic electroluminescent device with high driving durability and defined ionization potential relationship among hole-transport and luminescent layers

INVENTOR(S): Kitamura, Yoshitaka

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 123 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

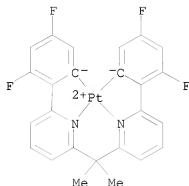
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20060105202	A1	20060518	US 2005-272763	20051115
JP 2006173588	A	20060629	JP 2005-333096	20051117
PRIORITY APPLN. INFO.:			JP 2004-333263	A 20041117
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 144:477361				

AB A first aspect of the invention is an inorganic electroluminescent device that includes a plurality of organic compound layers between a pair of electrodes. The plurality of organic compound layers include a luminescent layer and two or more hole-transporting layers. The hole-transporting layers include a layer adjacent to the luminescent layer. The luminescent layer contains a host material and a luminescent material. The luminescent material is a metal complex containing a tri- or higher-dentate ligand. When the ionization potential of the luminescent layer is designated as I_{p0} , the ionization potential of the hole-transporting layer adjacent to the luminescent layer among the hole-transporting layers is designated as I_{p1} , and the ionization potential of the n -th hole-transporting layer from the luminescent layer among the hole-transporting layers is designated as I_{pn} , these values satisfy the relationship represented by the following formula (1). In formula (1) n is an integer of 2 or more. $I_{p0} > I_{p1} > I_{p2} > \dots > I_{pn} > I_{pn}$ formula (1). Thus, if the durability (defined as the time to 0.5 necessary for a decrease in luminance from an initial value of 300 cd/m² to 150 cd/m²) of the comparative device comprising ITO (0.5 nm)/NPD hole-transport layer (40 nm)/mCP (95% by weight) + BPM-1 (5% by weight) luminescent layer [35 nm; where mCP = m-dicarbazolylbenzene, BPM-1 = [2,2-bis[6-(4,6-difluorophenyl)-*n*-C2]-2-pyridyl]propane]platinum(II)]/BALq electron-transporting layer (45 nm)/Al cathode (100 nm) is defined as standard, then the device of the invention comprising CuPc 1st hole-transport layer (10 nm)/NPD 2nd hole-transport layer (25 nm)/HTM-1 3rd hole-transport layer [5 nm, where HTM-1 = diphenylbis[4-(tribenzazepinyl)phenyl]silane]/mCP (95% by weight) + BPM-1 (5% by weight) luminescent layer (35 nm)/BALq 1st electron-transport layer (5 nm)/Alq 2nd electron-transport layer (40 nm) exhibited a durability relative to the standard of ≥ 3.5 .

IT	808111-97-9	864541-08-2
	RL: DEV (Device component use); MOA (Modifier or additive use); PRP (Properties); USES (Uses)	
	(dopant in mixed luminescent layer; organic electroluminescent device with high driving durability and defined ionization potential relationship among hole-transport and luminescent layers)	
RN	808111-97-9	CAPLUS
CN	Platinum, ((1-methylethylidene)bis((6,2-pyridinediyl-kN)-2,1-phenylene-kCl))- (SP-4-2)- (CA INDEX NAME)	



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L8 ANSWER 80 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:446105 CAPLUS

DOCUMENT NUMBER: 144:442426

TITLE: Organic electroluminescent devices employing heterocyclic compounds and metal complexes with multidentate ligands

INVENTOR(S): Ogasawara, Jun

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 113 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060099450	A1	20060511	US 2005-268650	20051108
JP 2006140218	A	20060601	JP 2004-326657	20041110
PRIORITY APPLN. INFO.:			JP 2004-326657	A 20041110

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 144:442426

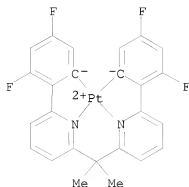
AB Organic electroluminescent devices comprising ≥ 1 organic layer between a pair of electrodes are described in which the organic layers include a luminescent layer, ≥ 1 of the organic layers comprises ≥ 1 metal complex containing a tri- or higher-dentate ligand, and a compound having a heterocyclic skeleton containing ≥ 2 heteroatoms is contained in the organic layer containing the metal complex and/or in other organic layer(s).

IT 864541-08-2

RL: DEV (Device component use); USES (Uses)
(organic electroluminescent devices employing heterocyclic compds. and metal complexes with multidentate ligands)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)](3,5-difluoro-2,1-phenylene- κ C)]], (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 81 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:446045 CAPLUS

DOCUMENT NUMBER: 144:442422

TITLE: Organic electroluminescent devices using metal complexes with multidentate ligands for enhancing singlet exciton generation

INVENTOR(S): Igarashi, Tatsuya

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 117 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060099451	A1	20060511	US 2005-269809	20051109
JP 2006140182	A	20060601	JP 2004-326053	20041110
PRIORITY APPLN. INFO.:			JP 2004-326053	A 20041110
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): MARPAT 144:442422				

AB Organic electroluminescent devices comprising ≥ 1 organic compound layer containing a luminescent layer between a pair of electrodes are described in which the luminescent layer contains an electrofluorescent compound, the emission when voltage is applied being mainly derived from the fluorescent compound, and the luminescent layer further comprises an amplifying agent functioning to increase the number of singlet excitons generated and thus amplifying the light intensity when voltage is applied, the amplifying agent being a metal complex having a tridentate or higher dentate ligand.

IT 808111-97-9 864541-08-2

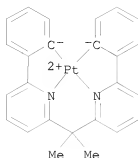
RL: DEV (Device component use); USES (Uses)

(organic electroluminescent devices using metal complexes with multidentate ligands for enhancing singlet exciton generation)

RN 808111-97-9 CAPLUS

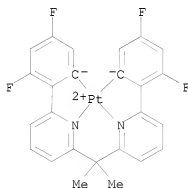
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)

10/578,039



RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



L8 ANSWER 82 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:322757 CAPLUS

DOCUMENT NUMBER: 144:380339

TITLE: Organic electroluminescent devices

INVENTOR(S): Yamazaki, Kazuki; Mishima, Masayuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 109 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

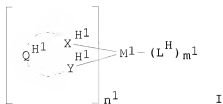
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006093197	A	20060406	JP 2004-273203	20040921
JP 2010267974	A	20101125	JP 2010-126827	20100602
PRIORITY APPLN. INFO.:			JP 2004-273203	A3 20040921
OTHER SOURCE(S):		MARPAT 144:380339		

GI



AB The devices contain light-emitting materials and host materials in the electroluminescent layers between a pair of electrodes. The light-emitting materials are metal complexes which have ≥ 3 -position ligands, and the host materials are also metal complexes (I).

IT 808111-97-9 864541-08-2

RL: DEV (Device component use); USES (Uses)

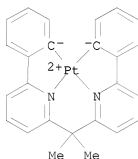
(light-emitting material; organic electroluminescent devices containing

metal

complexes and host materials in light-emitting materials)

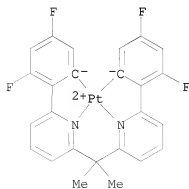
RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)(3,5-difluoro-2,1-phenylene- κ C)]]-, (SP-4-2)- (CA INDEX NAME)



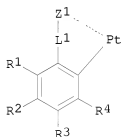
ACCESSION NUMBER: 2006:319697 CAPLUS
 DOCUMENT NUMBER: 144:378696
 TITLE: Light-emitting device employing a platinum complex with a quadridentate nitrogen-containing heterocyclic ligand
 INVENTOR(S): Ise, Toshihiro; Sano, Satoshi; Igarashi, Tatsuya
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan; Fujifilm Corporation
 SOURCE: U.S. Pat. Appl. Publ., 44 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060073359	A1	20060406	US 2005-234141	20050926
US 7732606	B2	20100608		
JP 2006093542	A	20060406	JP 2004-279153	20040927
JP 4531509	B2	20100825		
US 20090309490	A1	20091217	US 2009-395542	20090227
JP 2010161368	A	20100722	JP 2010-2388	20100107
PRIORITY APPLN. INFO.:			JP 2004-279153	A 20040927
			US 2005-234141	A3 20050926

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 144:378696

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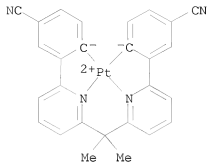
AB Organic electroluminescent devices are described which comprise a pair of electrodes and at least one organic layer including a light-emitting layer interposed between the pair of electrodes, wherein the organic layer contains at least one platinum complex compound having a quadridentate ligand containing a partial structure represented by formula (I), where Z1 represents a nitrogen-containing heterocycle coordinated to the platinum through a nitrogen atom; L1 represents a single bond or a linking group; R1, R3 and R4 each independently represent a hydrogen atom or a substituent; and R2 represents a substituent.

IT 881887-26-9P

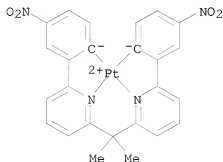
RL: DEV (Device component use); MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (light-emitting device employing platinum complex with quadridentate nitrogen-containing heterocyclic ligand)

RN 881887-26-9 CAPLUS

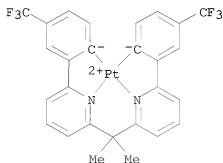
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(4-cyano-2,1-phenylene-κCl)]]-, (SP-4-2)- (CA INDEX NAME)



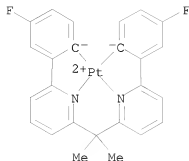
IT 881887-27-0P 881887-28-1P 881887-29-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (light-emitting device employing platinum complex with quadridentate
 nitrogen-containing heterocyclic ligand)
 RN 881887-27-0 CAPLUS
 CN Platinum, [[2,2'-(1-methylethylidene)bis[6-(3-nitrophenyl)pyridinato]](2-
)]- (9CI) (CA INDEX NAME)



RN 881887-28-1 CAPLUS
 CN Platinum, [[2,2'-(1-methylethylidene)bis[6-[3-
 (trifluoromethyl)phenyl]pyridinato]](2-)]- (9CI) (CA INDEX NAME)



RN 881887-29-2 CAPLUS
 CN Platinum, [[2,2'-(1-methylethylidene)bis[6-(3-fluorophenyl)pyridinato]](2-
)]- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 84 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:298895 CAPLUS

DOCUMENT NUMBER: 144:340470

TITLE: Organic electroluminescent devices with multiple
emitter-doped active layers including complexes with
tridentate and polydentate ligands

INVENTOR(S): Kitamura, Yoshitaka; Mishima, Masayuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 50 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060068222	A1	20060330	US 2005-234273	20050926
JP 2006121032	A	20060511	JP 2005-83458	20050323
			JP 2004-279563	A 20040927

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 144:340470

AB Organic electroluminescent devices having an anode, a cathode, and ≥ 1
organic compound layer between the anode and the cathode, with ≥ 1 of the
 ≥ 1 organic compound layers being an organic luminescent layer, are
described in which the organic luminescent layer contains ≥ 1 host
material and ≥ 2 luminescent materials, ≥ 1 of the luminescent
materials being a metal complex having a tridentate or higher polydentate
chain ligand.

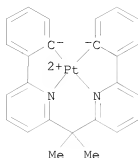
IT 808111-97-9 864541-08-2

RL: DEV (Device component use); MOA (Modifier or additive use); USES
(Uses)

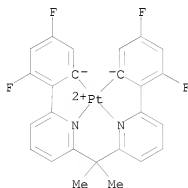
(organic electroluminescent devices with multiple emitter-doped active
layers including complexes with tridentate and polydentate ligands)

RN 808111-97-9 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl- κ N)-2,1-
phenylene- κ C]]-, (SP-4-2)- (CA INDEX NAME)



RN 864541-08-2 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)

L8 ANSWER 85 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2006:97819 CAPLUS
 DOCUMENT NUMBER: 144:180483
 TITLE: Organic electroluminescence device
 INVENTOR(S): Ise, Toshihiro; Igarashi, Tatsuya
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan; Fujifilm Corporation
 SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006032758	A	20060202	JP 2004-211236	20040720
JP 4484611	B2	20100616		

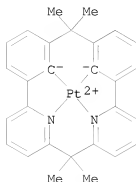
PRIORITY APPLN. INFO.: JP 2004-211236 20040720

AB The invention refers to an organic electroluminescence device comprising a metal complex containing a metal from the 5 period or 6 period, and from the 5th to 11th Group, or a rare earth metal complex.

IT 874743-10-9

RL: DEV (Device component use); USES (Uses)

(organic electroluminescence device comprising metal complex)
 RN 874743-10-9 CAPLUS
 CN Platinum, (7,7,18,18-tetramethyl-23,24-diazapentacyclo[17.3.1.12,6.18,12.113,17]hexacos-1(23),2,4,6(26),8,10,12(25),13,15,17(24),19,21-dodecaene-25,26-diyl- κ C25, κ C26, κ N23, κ N24)-, (SP-4-2)- (9CI) (CA INDEX NAME)



L8 ANSWER 86 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1004221 CAPLUS
 DOCUMENT NUMBER: 143:315141
 TITLE: Organic light-emitting devices with light-emitting layers containing an electrically inactive compound
 INVENTOR(S): Mishima, Masayuki; Ogasawara, Jun
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan; Fujifilm Corporation
 SOURCE: U.S. Pat. Appl. Publ., 22 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050202278	A1	20050915	US 2005-66195	20050225
US 7422800	B2	20080909		
JP 2005294250	A	20051020	JP 2005-21268	20050128
JP 4352008	B2	20091028		

PRIORITY APPLN. INFO.: JP 2004-66781 A 20040310
 JP 2005-21268 A 20050128

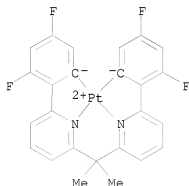
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:315141

AB Organic electroluminescent devices which comprise an organic compound layer structure containing ≥ 1 light-emitting layer are described in which the light-emitting layer contains a light-emitting material and an elec. inactive organic compound capable of being subjected to dry film formation and having an energy difference between its HOMO and LUMO of ≥ 4.0 eV. The light-emitting layer may comprise a phosphorescent material, especially an orthometalated metal complex or a porphyrin metal complex.

IT 864541-08-2
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
 (organic electroluminescent devices with light-emitting layers containing an

elec. inactive compound)
 RN 864541-08-2 CAPLUS
 CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
 (5 CITINGS)
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 87 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1004220 CAPLUS
 DOCUMENT NUMBER: 143:315140
 TITLE: Organic light-emitting device with hole transport
 layers containing an electrically inactive compound
 INVENTOR(S): Mishima, Masayuki; Ogasawara, Jun
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan; Fujifilm Corporation
 SOURCE: U.S. Pat. Appl. Publ., 22 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050202277	A1	20050915	US 2005-65478	20050225
US 7422799	B2	20080909		
JP 2005294249	A	20051020	JP 2005-21267	20050128
			JP 2004-66777	A 20040310
			JP 2005-21267	A 20050128

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:315140

AB Organic electroluminescent devices which comprise an organic compound layer containing

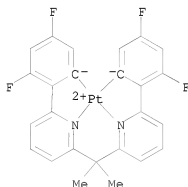
a hole transport layer, a light-emitting layer, and an electron transport layer between a pair of electrodes are described in which the hole transport layer contains a hole-transporting material and an elec. inactive organic compound capable of being subjected to dry film formation and having an energy difference between its HOMO and LUMO of ≥ 4.0 eV. The light-emitting layer may comprise a phosphorescent material, especially an orthometalated metal complex or a porphyrin metal complex. The hole transport layer may have a multilayered structure comprising a first hole transport layer comprising a first hole-transporting material; and a

second hole transport layer comprising a second hole-transporting material and the elec. inactive organic compound

IT 864541-08-2
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
 (organic electroluminescent devices with hole transport layers containing an elec. inactive organic compound)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 88 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:1004219 CAPLUS
 DOCUMENT NUMBER: 143:315139
 TITLE: Organic light emitting devices using electrically inactive materials
 INVENTOR(S): Mishima, Masayuki; Ogasawara, Jun
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan; Fujifilm Corporation
 SOURCE: U.S. Pat. Appl. Publ., 22 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050202276	A1	20050915	US 2005-65440	20050225
US 7635946	B2	20091222		
JP 2005294248	A	20051020	JP 2005-21266	20050128
PRIORITY APPLN. INFO.:			JP 2004-66779	A 20040310
			JP 2005-21266	A 20050128

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:315139

AB Organic electroluminescent devices which comprise an organic compound layer containing

a hole transport layer, a light-emitting layer, a blocking layer, and an electron transport layer between a pair of electrodes are described in which the blocking layer contains an electron transport material and an elec. inactive organic compound capable of being subjected to dry film formation and having an energy difference between its HOMO and LUMO of

≥4.0 eV. The light-emitting layer may comprise a phosphorescent material, especially an orthometalated metal complex or a porphyrin metal complex.

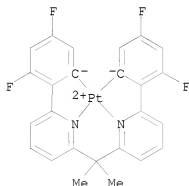
IT 864541-08-2

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(organic electroluminescent devices with blocking layers containing an electron transport material and an elec. inactive organic compound)

RN 864541-08-2 CAPLUS

CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)(3,5-difluoro-2,1-phenylene-κC)]]-, (SP-4-2)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 89 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:409536 CAPLUS

DOCUMENT NUMBER: 142:447304

TITLE: Preparation of cyclometalated metal complexes with bipodal ligands

INVENTOR(S): Stoessel, Philipp; Gerhard, Anja

PATENT ASSIGNEE(S): Covion Organic Semiconductors G.m.b.H., Germany

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

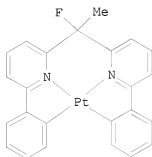
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042550	A1	20050512	WO 2004-EP11890	20041021
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10350722	A1	20050525	DE 2003-10350722	20031030

EP 1678190 A1 20060712 EP 2004-790697 20041021
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 CN 1894269 A 20070110 CN 2004-80031488 20041021
 JP 2007519614 T 20070719 JP 2006-537137 20041021
 KR 2006111456 A 20061027 KR 2006-7008085 20060426
 US 20070082284 A1 20070412 US 2006-578039 20060501
 PRIORITY APPLN. INFO.: DE 2003-10350722 A 20031030
 WO 2004-EP11890 W 20041021
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 142:447304; MARPAT 142:447304
 GI



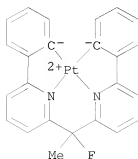
I

AB The invention relates to novel metal complexes with bipolar ligands. Thus, cyclometalation reaction of 1,1-bis(6-phenyl-2-pyridyl)-1-fluoroethane (preparation given) with cis-dimethyldi(η¹-S-dimethylsulfoxidyl)platinum(II) in PhMe at 90° for 3h gave 94% title complex I. Such compds. are of application as functional materials in a range of different applications, associated with the widest sense of the electronic industry.

IT 851231-11-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of cyclometalated metal complexes with bipodal ligands useful in electronic industry)

RN 851231-11-3 CAPLUS

CN Platinum, [(1-fluoroethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (9CI) (CA INDEX NAME)

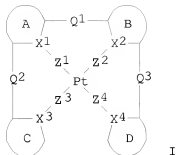


(9 CITINGS)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 90 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:409442 CAPLUS
 DOCUMENT NUMBER: 142:472295
 TITLE: Platinum complex as luminescent material in organic electroluminescent devices
 INVENTOR(S): Itoh, Hisanori; Nakayama, Yuji; Iwata, Takeshi; Matsushima, Yoshimasa; Hori, Yoji
 PATENT ASSIGNEE(S): Takasago International Corporation, Japan
 SOURCE: PCT Int. Appl., 91 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042444	A2	20050512	WO 2004-JP15889	20041027
WO 2005042444	A3	20050623		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1683804	A2	20060726	EP 2004-817419	20041027
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1875026	A	20061206	CN 2004-80031799	20041027
CN 100445294	C	20081224		
JP 4110173	B2	20080702	JP 2005-515131	20041027
TW 316540	B	20091101	TW 2004-133313	20041102
KR 2006115371	A	20061108	KR 2006-7008160	20060427
US 20070103060	A1	20070510	US 2006-578237	20060503
US 7442797	B2	20081028		
PRIORITY APPLN. INFO.:			JP 2003-374861	A 20031104
			WO 2004-JP15889	W 20041027
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):	MARPAT	142:472295		
GI				



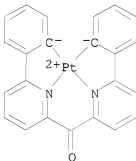
AB The invention relates to a novel platinum complex useful as a material for luminescent devices satisfactory in luminescent properties and luminescent efficiency; and a novel luminescent material utilizable in various fields. The platinum complex is represented by the general formula I, where any two of rings A, B, C, and D each represents an optionally substituted nitrogenous heterocycle and the remaining two each represents an optionally substituted aryl or heteroaryl ring, provided that rings A and B, rings A and C, or/and rings B and D may form a fused ring; any two of X1, X2, X3, and X4 each represents a nitrogen atom coordinating to the platinum atom and the remaining two each represents carbon or nitrogen; Q1, Q2, and Q3 each represents a bond, oxygen, sulfur, or a divalent group; and any two of Z1, Z2, Z3, and Z4 each represents a coordinate bond and the remaining two each represents a covalent bond, oxygen, or sulfur. The invention also relates to a luminescent device employing this platinum complex.

IT 851605-11-3P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(platinum complex as luminescent material in organic electroluminescent devices)

RN 851605-11-3 CAPLUS

CN Platinum, [carbonylbis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 91 OF 91 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1080997 CAPLUS
DOCUMENT NUMBER: 142:65002

TITLE: Organic electroluminescent devices and metal complex compounds
 INVENTOR(S): Nii, Kazumi; Watanabe, Kousuke; Igarashi, Tatsuya; Ichijima, Seiji; Ise, Toshihiro
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 142 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108857	A1	20041216	WO 2004-JP7882	20040601
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005310733	A	20051104	JP 2004-162849	20040601
JP 4460952	B2	20100512		
EP 1629063	A1	20060301	EP 2004-735658	20040601
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1777663	A	20060524	CN 2004-80010948	20040601
CN 100551994	C	20091021		
CN 101667626	A	20100310	CN 2009-10168315	20040601
US 20060182992	A1	20060817	US 2005-551653	20050929
US 7569692	B2	20090804		
US 20090174324	A1	20090709	US 2009-395358	20090227
JP 2010062577	A	20100318	JP 2009-245769	20091026
JP 2010080982	A	20100408	JP 2009-293567	20091224
JP 2010118670	A	20100527	JP 2009-293566	20091224
PRIORITY APPLN. INFO.:			JP 2003-157006	A 20030602
			JP 2004-92274	A 20040326
			CN 2004-80010948	A3 20040601
			JP 2004-162849	A3 20040601
			WO 2004-JP7882	W 20040601
			US 2005-551653	A3 20050929

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 142:65002

AB Organic electroluminescent devices which have a pair of electrodes and ≥ 1 organic layer including a luminescent layer between the pair of electrodes are described in which ≥ 1 layer between the pair of electrodes comprises ≥ 1 metal complex having a tridentate- or higher polydentate-chain structure ligand. Preferably, the metal ion in the metal complex is selected from platinum, iridium, rhenium, palladium, rhodium, ruthenium and copper ions. Selected groups of platinum complexes are also described.

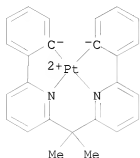
IT 808111-97-9

RL: Devs (Device component use); MOA (Modifier or additive use); USES (Uses)

(organic electroluminescent devices using metal-polydentate ligand)

10/578,039

complexes)
RN 808111-97-9 CAPLUS
CN Platinum, [(1-methylethylidene)bis[(6,2-pyridinediyl-κN)-2,1-phenylene-κC]]-, (SP-4-2)- (CA INDEX NAME)



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS
RECORD (20 CITINGS)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 11:35:32 ON 03 MAR 2011)

FILE 'REGISTRY' ENTERED AT 11:35:54 ON 03 MAR 2011

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 25 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:36:38 ON 03 MAR 2011

L4 9 S L3

FILE 'REGISTRY' ENTERED AT 11:37:57 ON 03 MAR 2011

L5 STRUCTURE UPLOADED

L6 1 S L5

L7 54 S L5 FULL

FILE 'CAPLUS' ENTERED AT 11:39:16 ON 03 MAR 2011

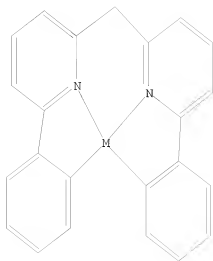
L8 91 S L7

=> d l5

L5 HAS NO ANSWERS

L5 STR

10/578,039



Structure attributes must be viewed using STN Express query preparation.

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